

A COLLECTIVE INDEX
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TRANSACTIONS, PROCEEDINGS
AND ABSTRACTS
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BY
MARGARET D. DOUGAL

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PREFACE.

THIS Index has been compiled under the direction of a Committee appointed by the Council of the Chemical Society, consisting of the Treasurer (Chairman), the Secretaries, the Editors, Dr. Forster Morley, Mr. J. W. Rodger, and Dr. Palmer Wynne. The actual execution of the work was entrusted to Mrs. Dougal, who has been assisted at various times by Mrs. Guthrie, Miss Neale, B.Sc., Miss Green, Miss Morfee, Miss Sharpe, and Mr. D. A. Gracey.

The Committee are indebted for assistance, and for advice as to the arrangement of special subject matter, to Captain Abney, Mr. Michael Carteighe, Mr. Thiselton-Dyer, Mr. Lazarus Fletcher, Professor Percy Frankland, Mr. A. J. Green, Dr. Halliburton, Professor Hummel, Professor Japp, Professor Meldola, Dr. Morris, Dr. D. H. Scott, Professor Tilden, Mr. Tutton, Dr. J. A. Voelcker, Dr. Walker, and Professor Warington. They desire especially to thank Dr. Forster Morley for the great care with which he has read and corrected the whole of the proof-sheets, and for the many valuable suggestions he has made as the compilation was passing through the press.

The work is divided into two main parts: (1) an Index of Authors arranged alphabetically, with the titles of their respective papers in chronological order; and (2) an Index of Subjects.

The general arrangement of each part is self-evident, and calls therefore for very little explanation. With a view to the more certain identification of authors, care has been taken to give their names in full whenever possible. In some instances, however, even the full name has not sufficed, and it has been necessary, as a means of further identification, to add the name of the town or place with which the author is connected. Thus we have Thomas Andrews of Belfast and Thomas Andrews of Sheffield; Hermann Müller-Hersfeld, Hermann Müller of Munich, and Hermann Müller of ~~Germany~~. In the case of Russian authors, whose papers for

most part reach the Society's publications through German sources, the advice of Professor Menshutkin and Dr. Lewkowitsch has been followed in employing the German system of transliteration, as more likely to lead to uniformity of spelling.

Errors in the names of authors found in the Annual Indexes, and discovered in the course of compiling the Collective Index of Authors, were of course rectified before that section of the work was passed for press; other errors detected subsequently when arranging the Subject-Index are given in a separate list on p. vii. A few papers were found to have been omitted from the Annual Indexes, and hence are not given in their proper place in the Collective Index: a list of these "Additional Entries" will be found also on p. vii. Errors of transcription both in the Annual and in the Collective Indexes when detected have also been corrected.

After careful consideration the Committee decided that the Index of Subjects should be essentially, and in the main, alphabetical, but that whenever practicable the substances should also be alphabetically arranged under certain well-defined main groups, *e.g.* alkaloids, carbohydrates, glucosides, terpenes, etc. It was further decided that Agricultural Chemistry, which constitutes a large and to some extent an independent section, should be placed apart.

The Collective Index will be found to differ in many particulars from the Annual Indexes upon which it is based. This was inevitable, as in the earlier Annual Indexes especially, no consistent method of arrangement was followed. Changes of nomenclature were necessarily frequent, and although special care has been exercised that in the Collective Index the same substance should not be entered under different names, it is possible that a few instances of synonyms may have escaped detection. Entries omitted in the subject-portion of the Annual Indexes, discovered in the preparation of the Collective Index, have been duly inserted; others discovered subsequently when the separate sections had been printed off are given on p. ix. In very many cases only the title of a paper appears in the Annual Indexes, and it has been necessary to give supplementary entries as more accurately descriptive of its contents. Hence a large number of additional entries have been made in the Collective Index during its compilation; others of which the desirability was seen later, but which could not be added at the proper time, are given on p. x *et seq.* The list includes alternative names and double entries omitted from the

Collective Index. Clerical and printer's errors which had escaped detection when reading the proofs have, when discovered, been rectified.

In all cases where these have been definitely ascertained position numbers have been given. The sequence of radicles in the name of a substance, and the nomenclature of acidic and aromatic radicles have been arranged in a more systematic manner than hitherto, and except in cases where the "trivial" name was judged to be too well established to be altered, the name which seemed best to express the constitution of the substance has been preferred. Alternative names have, however, been given, with, of course, cross references. Matters relating to inorganic salts will be found under the name of the particular metal: thus, ferrous sulphate will be found under Iron. In the case of organic salts, where the acid is as a rule the distinctive or significant substance, it has been deemed more convenient to place the entries under the name of the acid: thus barium lactate will be found under Lactic acid. Whenever a prefix, such as *ortho*, *meta*, *para*, *iso*, *secondary*, *tertiary*, *mono*, *di* and *tri*, etc., is not part of the alphabetical arrangement, it is printed in *italics*.

T. E. T.

ABBREVIATIONS.

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T. = Transactions.
P. = Proceedings.
A. = Abstracts.
o = ortho.
m = meta.
p = para.
n = normal.
prim. = primary.
sec. = secondary.

tert. = tertiary.
ψ = pseudo.
d = dextro.
l = laevo.
i = inactive.
s = symmetrical.
as = unsymmetrical.
b.p. = boiling point.
m.p. = melting point.

ADDITIONS AND CORRECTIONS.

INDEX OF AUTHORS.

ADDITIONAL ENTRIES.

- Capus, the sorghum sugar industry in the United States, 1885, A., 1273.
 Johnson, *George Stillingfleet*, magnesia containing rare earths, 1886, A., 980.
 Meissl, *Emerich*, and *Friedrich Strohmer*, formation of fat from carbohydrates in animals, 1881, A., 912.
 Meyer, *Victor*, remarks on Bonz's paper on the bromination of α - and β -thiophenic acids, 1885, A., 1207.
 Niederist, *Gustav*, Reichenbach's picamaï, 1883, A., 1004.
 Rospendowski, *W.*, artificial blue colours, 1884, A., 1419.
 Vibrans, influence of manuring on the composition of potatoes, 1883, A., 882.
 Weiske, *Hugo*, and *Bernhard Schulze*, influence of certain amides on the animal organism, 1885, A., 409.

CORRECTIONS.

- Angeblis, *should be Angelbis*.
 Anrep, *Vasilius Kron*, *should be Anrep, Vasilius von*.
 Austen, *Peter Townsend*, and *George B. Hurff*, *delete* 1885, A., 512.
 Baeyer, *Adolf von*, constitution of benzene, 1887, A., 302, *add* 1887, A., 370.
 Baur, *R.*, estimation of fatty acids as fats, *should be* estimation of fatty acids in soaps.
 Becker, *George E.*, *should be Becker, George F.*
 Behr, *Arno*. See *Friedrich Soxhlet*, *should be* See *Franz Soxhlet*.
 Ben Sande, *Alfredo*, *should be Ben Saude, Alfredo*.
 Borelli, *S.*, *should be Borrelli, S.*
 Brown, *Horace*, *should be Brown, Horace T.*
 Buchner, *Eduard*, and *Theodor Curtius*, action of ethyl diazoacetate on aromatic hydrocarbons, 1885, A., 207, *should be* 1885, A., 1207.
 Chanlaroff, *Mohsin Bey*, *should be Chanlaroff, Mohsin Bey*, and *add* butyrolactone and α -ethylbutyrolactone, 1885, A., 371.
 Chrustschoff, *K. v.*, new type of pyroxene, 1886, A., 776, *add* 1886, A., 990.
 Claus, *Adolph*, and *Carl Wenzlik*, *should be Carl Wenzlick*.
 Cook, *Ernest H.*, detection and estimation of iodine, 1885, T., 17, *should be* 1885, T., 171.
 Degener, *Paul* (and others), separation of sugar from molasses, 1884, A., 447, *should be* 1884, A., 1447.
 Divers, *Edward*, constitution of the fulminates, *add* 1884, T., 19.
 Dunstan, *Wyndham Rowland*, and *Edmund James Wooley*, *should be Edmund James Woolley*.
 Dupré, *August*, battery with two liquids, 1885, A., 853, *should be Dupré, Anatole*.

Eder, Josef Maria, behaviour of the haloid compounds of silver to the solar spectrum, 1885, A., 703, *add* 1887, A., 936.

Ellenberger, Wilhelm, and **Viktor Hofmeister**, the digestive fluids and digestion of the horse, 1884, A., 472, *add* 1884, A., 92.

Erdmann, Hugo, and **Richard Kirchhoff**, *should be Richard Kirchhoff*.

Farbaky, Stefan. See **Stefan Schenck**, *should be See Stefan Schenck*.

Fittig, Rudolph, and **Moritz Rühlmann**, *should be Moritz Rühlmann*.

Fleck, Herman, *should be Fleck, Hugo*.

Frank, A., 1884, A., 1226, *should be Frank, Adolph*.

Fresenius, Heinrich, and **Stocks**, *delete and Stocks*.

Friedel, Charles, biucite of Cogné, vale of Aosta, *add* 1883, A., 1061.

Frölich, C., *should be Fröhlich, Carl*.

Gabriel, Guto, *should be Gabriel, Sato*.

Gabriel, Sato, estimation of cellulose, 1829, A., 923, *should be* 1892, A., 923.

Genth, Frederick Augustus, hubneite, hessite, bismutite and natrolite, 1892, A., 793, *should be Genth, Frederick Augustus*, and **Samuel Lewis Penfield**.

Giles, Wm. B., and **A. Schearer**, *should be A. Shearer*.

Gouy, A., and **H. Rigollet**, *should be H. Rigollet*.

Grabowski, Nicolaus H., *should be Grabowski, Julian*.

Gray, Thomas Andrew, *should be Gray, Thomas*.

Gray, Thomas Andrew, and **James Johnstone Dobbie**, *should be Gray, Thomas, Andrew Gray*, and **James Johnstone Dobbie**.

Günzberg, Alfred, *should be Günzburg, Alfred*.

Hansen, H., *should be Hanssen, H.*

Hantzsch, Arthur Rudolf, and **Elvir Hermann**, *should be Elvir Herrmann*.

Höhnell, Franz Xavier R. (Friedrich) von, *should be Höhnell, Franz Xavier R. (Friedrich) von*.

Hönig, Max, and **L. Jesser**, carbohydrates, 1888, A., 126, *should be* 1883, A., 1266.

Hullemann, I., *should be Hulleman, I.*

Irvine, Robert, and **J. Sims Woodhead**, *should be G. Sims Woodhead*.

Jenskel, Ludolf, *should be Jenkel, Ludolf*.

Kirchhoff, Richard, *should be Kirchhoff, Richard*.

Klein, G., *should be Klien, Georg*.

Klinger, Heinrich Carl, action of sunlight on organic compounds, 1888, A., 888, *should be* 1886, A., 888.

Knop, Adolf, action of phosphorus pentasulphide on aniline, 1888, A., 265, *should be Knop, Aug.*

Knop, H., analysis of silicates. 1883, A., 379, *should be Knop, Johann August Ludwig Wilhelm*.

Knorrr, Ludwig, and **Friedrich Jödicke**, reduction of hydroxylepidine and methyllepidone, 1887, A., 278, and pyrazolone derivatives from ethyl benzoylacetate, 1887, A., 1121, *for Friedrich Jödicke, and Karl Klotz*.

Ladenburg, Albert, and **Friedrich Carl Petersen**, duboisine, 1877, A., 740, *should be* 1887, A., 740.

Landolf, Fr., *should be Landolph, Fr.*

Lea, Matthew Carson, combinations of silver chloride, bromide and iodide with colouring matters, 1885, A., 350, *add* 1885, A., 611.

Lippitt, T. P., *should be Lippitt, T. P.*

Ludwig, Ernst, and **Edward Zillner**, 1890, A., 962, *should be* 1891, A., 962.

Martiny, Benno, and **Wilhelm Fleischmann**, *delete and Wilhelm Fleischmann*.

Mennell, Ernst, *should be Mennel, Ernst*.

Miller, Oscar, α -hydroxyphthalic acid, 1884, A., 1177, *should be Miller, Oswald*.

Mochain Beg Chanlaroff, *should be See Chanlaroff, Mochsin Beg*.

Moddermann, Tjahn, *should be Modderman, Rudolph Simon Tjaden*.

Muntz, *Achille*, and *Emile Aubin*, estimation of carbonic anhydride in the atmosphere, 1884, A., 659, *add* 1894, A., 710.

Obolenski, *Juan N.*, *should be Obolonski, Juan N.*

Osmond, *Floris*, heating and cooling of melted steel, 1887, A., 21, *should be* 1887, A., 219.

Ostwald, *Wilhelm*, electrical conductivity of acids, 1885, A., 323, *add* 1885, A., 3.

Perkin, *William Henry, junior*, and *Augustus Schloesser*, 1890, P., 162, *should be* 1889, P., 162.

Pflug, *Constantin*, ignatieffite, 1887, A., 1085, *add* 1890, A., 454.

Pickering, *Percival Spencer Umfreville*, *should be Pickering, Spencer Percival Umfreville*.

Pinner, *Adolf*, *m*-diazines (pyrimidines), *delete* 1885, A., 153, and 1891, A., 60.

Prafulla Chandra Ray, *should be Rây, Prafulla Chandra*.

Quantin, *Henri Emile*, volumetric estimation of sulphates, 1889, A., 1089, *should be* 1889, A., 1087.

Reinhart, *J. H.*, *should be Reinhardt, J. H.*

Rickmann, *James Pellatt*, *should be Rickman, James Pellatt*.

Rising, *William Bradley*, *should be Rising, Willard Bradley*.

Romanis, *Robert*, gold from Burmah, 1887, T., 221, *should be* 1887, A., 221.

Rosoll, *Alexander*, *should be Rosoll, Alexander*.

Rubrics, *H.*, 1892, A., 1030, 1521, *should be* 1892, A., 1030, 1524.

Salzeberger, *Georg*, *should be Salzberger, Georg*.

Schwerin-Lowitz (*Graf*) von, *should be Schwerin-Lówitz (Graf) von*.

Snijders, *Aarnout Johannes Cornelis*, *should be Snijders, Aarnout Johannes Cornelis*.

Stahel, *Rudolph*, A., 1259, *should be* 1890, A., 1259.

Stavely, *William W.*, *should be Staveléy, William W.*

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Stillwell, *Charles M.*, *should be Stillwell, Charles M.*

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Thorpe, *Thomas Edward*, and *Henry Halliburton Robinson*, 1890, P., 165, *should be* 1889, P., 165.

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Veley, *Victor Herbert*, conditions of the reaction between copper and nitric acid, 1890, A., 170, *should be* 1890, A., 701.

Verneuil, *Auguste Victor Louis*, phosphorescent blende, 1888, A., 791, 1282, *should be* 1888, A., 791, 1248.

Wallach, *Otto*, new compounds of the camphor series and a new terpene, 1891, A., 1686, *should be* 1891, A., 1086.

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m-Amido-*s*-diphenylmethylcarbamide (LELLMANN and BENZ), 1891, A., 1215.

Benzenesulphonic anhydride (ABRAHAM), 1886, T., 692; P., 229.

Benzenesulphonic chloride, as a reagent for amines (HINSBERG), 1891, A., 49.

Benzonitrile, dispersive power of (BARBIER and ROUX), 1889, A., 806.

Bis- β -hydroxyphenyl propyl ketone, *di-m* chloro-*di-o*-nitro- (EICHENGRUN and EINHORN), 1891, A., 1098.
***n*-Butylaniline** (KÄHN), 1886, A., 263.

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***o*-Carboxyphenylacetamide**, *dibromo-* (LE BLANC), 1889, A., 257.

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***s*-Diphenylmethylcarbamide**, *m*-amido-, and *m*-nitro- (LILJEMAN and BENZ), 1891, A., 1215.

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1:2-Di-*m*-tolyl-3-methylpyrazolone (v. PERGER), 1886, A., 1046.

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Bismuthite, *delete* See also Bismuth carbonate.

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- Acetonitriles**, chlorinated, and their derivatives, boiling-point anomalies of (BAUER), 1885, A., 1120.
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- Acetonitro- ψ -cumididesulphonic acid** (MAYER), 1887, A., 659.
- β -Aceto-*o*-nitrophenylalanine**, lactam of (EINHORN), 1884, A., 305.
- Acetonuria** (V. JAKSCH), 1883, A., 1161; 1885, A., 680; (WEST), 1890, A., 399.
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- Acetylacetone** (PAAL), 1885, A., 505; (KNORR), 1889, A., 385.
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- Acetylacetonephenylmethyldihydrazone** (KOHLEAUSCH), 1890, A., 24.
- Acetylcarbamide**, nitr- (FRANCHIMONT and KLOBBIE), 1889, A., 125.
- Acetyldiphenylthiocarbamide** (PAWLEWSKI), 1888, A., 478.
- 5-Acetyl-4-hydroxy-2-phenyl-6-methyl-*m*-diazine** (PINNER), 1890, A., 70.
- Acetylphenylic sulphide** (DELISLE), 1889, A., 489.
- Acetylphthalimide** (GOEDECKE-MEYER), 1888, A., 1294.
- Acetylquinoline** (FISCHER and KUTZEL), 1883, A., 588.
- Acetopentamethylenediamine** and dicyan- (GUARESCHI), 1892, A., 1071.
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- Acetophenone**, *oxamido-*, picrate (GOE-DECKEMEYER), 1888, A., 1294.
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- Acetophenylcarbamic acid, sodium salt of** (SEIFERT), 1885, A., 983.
- Acetophenylcarbamide** (KUHN), 1885, A., 260.
- Acetophenylcitrazonazide** (MICHAELIS), 1886, A., 699.
- Acetophenyldimethylhydrazide** (FISCHER), 1887, A., 932.
- Aceto-*m*-phenylenediamine hydrochloride** (WALLACH and SCHULZE), 1883, A., 583.
- Aceto-*p*-phenylenediamine and some new azo-derivatives** (NIETZKI), 1884, A., 1016.
- Acetophenyl- α -ethylhydrazide** (PHILIPS), 1889, A., 1158.
- Acetophenylhydrazide** (MICHAELIS and SCHMIDT), 1889, A., 1159.
- Acetophenylmethylhydrazide** (FISCHER), 1887, A., 932.
- p*-brom-** (BOLSIING and TAFEL), 1892, A., 982.
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- Acetophenylisopropylhydrazide** (PHILIPS), 1889, A., 1159.
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- Acetophthalylimide** (ASCHAN), 1886, A., 704.
- Aceto- β -tetrahydronaphthylamide** (BAMBERGER and MÜLLER), 1888, A., 712.
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- Acetothienone** (*thienyl methyl ketone*) (PETER), 1885, A., 141, 764.
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- Aceto-*m*-toluidide, 4-brom-** (CLAUS), 1892, A., 1201.
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- Aceto-*o*-tolylamidoacetic acid** (BISCHOFF and HAUSDÖRFER), 1892, A., 1334.
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- α -Acetoxy- γ -phenylcrotonic acid** (TIRMANN), 1892, A., 472.
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- Acetylbromosatin** (v. BAeyer and ORCONOMIDES), 1883, A., 201.
- Acetyl- α - and - β -bromonaphthalene** (SCHWEITZER), 1891, A., 684.
- Acetylchromothymol** (MAZZARA), 1890, A., 366.
- Acetylbutylchloraldoxime** (SCHIFF and TARUGI), 1892, A., 34.
- Acetylbutylic alcohol** (PERKIN), 1887, T., 718; (COLMAN and PERKIN), 1889, T., 352; P., 80.
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- γ -Acetylbutyric acid** (WOLFF), 1883, A., 455.
- β -Acetylisobutyric acid, derivatives of** (ZANETTI), 1892, A., 74.
- ω -Acetylisobutyric acid (α -methyl- β -acetylpropionic acid)** (THORNE), 1885, A., 1200.
- Acetylbutyryl and its derivatives** (v. PECHMANN and OTTE), 1888, A., 1052; 1889, A., 1138.
- Acetylisobutyryl** (v. PECHMANN and OTTE), 1888, A., 105; 1889, A., 1138.
- Acetylbutyrylmethane** (CLAISEN and EHRLHARDT), 1889, A., 851.
- Acetylcamphenylcarboxylic acid** (WINZER), 1890, A., 1152.
- Acetylcaproic acid.** See Acetylhexoic acid.
- Acetylcapronyl** (OTTE and v. PECHMANN), 1889, A., 1138.
- Acetylisocapronyl** (v. PECHMANN and OTTE), 1888, A., 1052.
- Acetylcarbinol (*ucetol*)** (PERKIN and TINGLE), 1889, P., 156; (PERKIN), 1891, T., 786, 790; P., 40.
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- Acetylcarbinyl acetate** (PERKIN), 1891, T., 788.
- Acetylcarbinyl ethyl ether** (FITTING and ERLBNBACH), 1888, A., 1269; (ERLBNBACH), 1892, A., 954.
- ψ -Acetyl- α -carbopyrrollic acid and its methylic salt** (CIAMICIAN and DENNSTEDT), 1884, A., 1045.
- 3-Acetylcarbostyryl** (FRIEDLÄNDER and GÜHRING), 1883, A., 1149.
- Acetylcarvacrol** (CLAUS and FAHRION), 1889, A., 880.
- Acetyltrichloracetylacrylic acid** (ANSCHÜTZ), 1890, A., 365.

- Acetylchlorhydrase, action of dipotassium salicylate on (MICHAEL), 1884, A., 439.
- Acetyl-*m*- and *p*-chlorobenzene-*p*-azop-cresol (GOLDSCHMIDT and POLLAK), 1892, A., 974.
- Acetyl-*m*- and *p*-chlorobenzenehydrazop-cresol (GOLDSCHMIDT and POLLAK), 1892, A., 974.
- Acetyl-*p*-chlorobenzophenones (DEMUTH and DITTRICH), 1891, A., 314.
- Acetylpentachlorobutyric acid, trichlor- and dichlorobrom- (ZINCKE and RABINOWITSCH), 1891, A., 691.
- Acetyltrichlorocrotonic acid, dichlor- (ZINCKE and RABINOWITSCH), 1891, A., 690.
- Acetyltetrachlorocrotonic acid, di- and tri-chlor- (ZINCKE and FUCHS), 1892, A., 1462.
- Acetylchloroantiglyoxime (HANTZSCH), 1892, A., 694.
- Acetyltetrachloro-*m*-hydroxybenzoic acid (ZINCKE and WALBAUM), 1891, A., 710.
- Acetylchloromannose (FINCHER and HIRSCHBERGER), 1890, A., 226.
- Acetylchlorophenols, isomeric (DACCOMO), 1892, A., 308.
- Acetyltrichlorophenol (LAMPERT), 1886, A., 616.
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- Acetyl-*p*-chlorothiophenol (DACCOMO), 1892, A., 308.
- Acetylcholesterol, brom- (REINITZER), 1888, A., 1076.
- Acetylcitric acid and its reduction (EASTFIELD and SELL), 1892, T., 1005.
- Acetylcitric anhydride, and the action of aromatic amines on (KLINGEMANN), 1889, A., 768.
- Acetylcodeine (HENNE), 1884, A., 614.
- Acetylcerylignol (PASTROWICH), 1883, A., 1006.
- Acetylcotarnelactone (ROSER), 1890, A., 529.
- Acetyl-*m*-coumaric acid (TIEMANN and LIUDWIG), 1883, A., 159.
- Acetylcresol (KLINGEL), 1886, A., 61.
- Acetylcrotonyl (v. PECHMANN and OTTE), 1888, A., 1052; 1889, A., 1139.
- Acetylcumene and its derivatives (WIDMAN), 1888, A., 1085, 1086.
- Acetyl- ψ -cumeneazo- and hydrazophenol (GOLDSCHMIDT and BRUBACHER), 1891, A., 1210.
- Acetyl- ψ -cumidinesulphonic acid, nitro- (MAYER), 1887, A., 659.
- Acetylcumylglycollic acid (*isopropyl-phenylacetylglycollic acid*) (FILETI and AMORETTI), 1891, A., 1060.
- Acetylcurcumin (JACKSON and MENKE), 1885, A., 271.
- Acetylcyanethine (v. MEYER), 1885, A., 140.
- Acetylisocyanic acid (SCHOLL), 1891, A., 282.
- Acetylcytisine (v. BUCHKA and MAGALHAES), 1891, A., 750.
- Acetyl-*p*-desylphenol (JAPP and WADSWORTH), 1890, T., 968.
- Acetyl-*m*-diethoxybenzene. See *m*-Diethoxyacetophenone.
- ω -Acetyl- ω -diethylhexoic acid and its oxime (KIPPING and PERKIN), 1890, T., 36.
- Acetyldigitogenin (KILIANI), 1891, A., 576.
- Acetyldihydroxydimethylanthrurufin (v. KOSTANECKI and NIEMENTOWSKI), 1885, A., 1240.
- Acetyldihydroxytetrahydroquinoline (v. BAeyer and HOMOLKA), 1884, A., 78.
- Acetyldihydroxythionaphthalene (TASSINARI), 1889, A., 246.
- Acetyldiketohexamethylenedicarboxylic acid (FEIST), 1892, A., 586.
- Acetyldimethoxygentisine (v. KOSTANECKI and SCHMIDT), 1891, A., 1386.
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- Acetyldimethylnaphthol (CANNIZZARO and CARNELUTTI), 1888, A., 79.
- 5:2:4-Acetyldimethylpyrroline (MAGNANINI), 1889, A., 57.
- 5:2:4-Acetyldimethylpyrroline-3-carboxylic acid (MAGNANINI), 1889, A., 57.
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- Acetyldiosphenol (SHIMOYAMA), 1888, A., 1205.
- Acetyldiphenyl (ADAM), 1888, A., 959.
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- Acetylene, preparation of (DE FORCAND), 1887, A., 544.
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 ω -Acetylhexoic acid (KIPPING and PERKIN), 1889, T., 338; P., 79.
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- Acetylhydrocotarnineacetic acid** (BOWMAN), 1887, A., 1056.
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 β -Acetylhydroxy- α -truxillic acid (HOMANN, STELTZNER, and SUKOW), 1891, A., 1496.
 γ -Acetyl- β -hydroxyisovaleric acid (OBREGIA), 1892, A., 325.
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Acetylmesitylic oxide (CLAISEN and EHRRHARDT), 1889, A., 850.
Acetyl- α - and β -methoxynaphthalene (GATTERMANN, EHRRHARDT, and MAISCH), 1890, A., 964.
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1'-Acetyl-3'-methylisindazole (AUWERS and v. MEYENBURG), 1891, A., 1376.
1'-Acetyl-2'-methylindole (MAGNANINI), 1888, A., 957.
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3-Acetyl-2'-methylquinoline (*p-acetylquinolalidine*) (BEREND and THOMAS), 1892, A., 1488.
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- α -Acetylnaphthol (ERDMANN), 1888, A., 488; 1890, A., 376.
- β -Acetylnaphthol, α -nitro-, molecular transformation of (BÖTTCHER), 1883, A., 1113.
- 6-Acetylnaphthylglycollic acid (SCHWETZER), 1891, A., 729.
- Acetyl- α -naphthylthiocarbazine (FREUND), 1892, A., 510.
- Acetylnicotenylamidoxime (MICHAELIS), 1892, A., 207.
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- Acetyl/dinitrocarvacrol (MAZZARA and PLANCHER), 1892, A., 309.
- Acetylnitroethylic alcohol (DEMUTH and MEYER), 1890, A., 858.
- Acetyl-*o*-nitrohydroxyazobenzene (GOLDSCHMIDT and BRUBACHER), 1891, A., 1261.
- Acetyl/dinitromethylquinol (KEHRMANN and BRASCH), 1889, A., 970.
- Acetylnitro-opianic acid (LIEDERMANN and KREEMANN), 1887, A., 47.
- Acetyl-octylthiophen (v. SCHWEINITZ), 1886, A., 535.
- Acetylopianic acid (LIEDERMANN and KLEEMANN), 1887, A., 47.
- Acetyl-pæonol (NAGAI), 1892, A., 59, 845.
- Acetylpentamethyl-*p*-leucaniline (FISCHER and KÖRNER), 1884, A., 607.
- Acetylphenanthraquinol (JAPP and KLINGEMANN), 1890, P., 31.
- p*-Acetylphenetidine. See Phenacetin.
- p*-Acetylphenetol (GATTERMANN, EHRHARDT, and MAISCH), 1890, A., 963.
- Acetylphenol, *o*-nitro- (BÖTTCHER), 1883, A., 1113.
- α -Nitramido- (SCHIFF), 1886, A., 613.
- 1:2:4-Acetylphenolbisacetoluenes (GOLDSCHMIDT and POLLAK), 1892, A., 976.
- Acetyl- α -phenoldichroin (BRUNNER and CHUIT), 1888, A., 363.
- Acetylphenoloxychroin (BRUNNER and CHUIT), 1888, A., 363.
- $\alpha\alpha'$ -Acetylphenoxymethane (VLADESCO), 1892, A., 811.
- Acetylphenylcarbazine (FREUND and GOLDSMITH), 1888, A., 1187.
- Acetylphenyl/dichlorohydroxypyridone (ZINCK), 1890, A., 965.
- Acetylphenyl-*p*-coumaric acid, synthesis of (OGIALORO TODARO), 1884, A., 176.
- β -Acetyl- γ -phenylisocrotonic acid (ERDMANN), 1890, A., 375.
- Acetylphenylegonine (EINHORN and KLEIN), 1889, A., 283.
- Acetylphenyl- ψ -hydantoin (PINNER and SPILKER), 1889, A., 707.
- Acetylphenylhydrouracil (HOOGWERFF and VAN DORP), 1891, A., 197.
- 1:3'-Acetylphenylisindazole (AUWERS and v. MEYENBURG), 1891, A., 1378.
- 2-Acetyl-1-phenyl-5-methylhydroisopyrazolone (LEDERER), 1892, A., 635.
- 3'-Acetyl-2'-phenyl-1'-methylindole (KOHLEBAUSCH), 1890, A., 24.
- Acetylphenylmethyltetrahydroquinazoline (PAUL and KRECKE), 1892, A., 81.
- Acetyl-1-phenylpyrazole and its oxime and phenylhydrazones (BALBIANO), 1890, A., 798.
- Acetylphenylsuccinic acid, phenylhydrazine derivatives of (WEITNER), 1885, A., 793.
- Acetylphenylthiocarbazine (FREUND and GOLDSMITH), 1888, A., 1188.
- Acetylphenyltropoene (LADENBURG), 1883, A., 671.
- Acetylpicamar (NIEDERHITZ), 1883, A., 1005.
- Acetylpipeptide (LEHMANN and SCHWADERER), 1889, A., 903.
- Acetylpipeidine, trichlor- (DALIX), 1888, A., 965.
- Acetylpipezone (CIAMICIAN and SILBER), 1892, A., 873.
- β -Acetylpropionic acid. See Levulinic acid.
- Acetylpropionyl and its derivatives (v. PECHMANN), 1888, A., 812.
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- Acetylpropionylhydrazones (OTTE and v. PECHMANN), 1889, A., 1137.
- Acetylpropionylhydrazoximes (OTTE and v. PECHMANN), 1889, A., 1138.
- Acetylpropionylmethane (CHAMEN and EHRHARDT), 1889, A., 851.
- Acetylpropionyl- $\alpha\beta$ -phenylhydrazacetoxime (BALTZER and v. PECHMANN), 1891, A., 1116.
- p*-Acetylpropylbenzene and its derivatives (WIDMAN), 1888, A., 1085, 1086.
- Acetylpropylic acetate (LIPP), 1889, A., 814.
- Acetylpropylic alcohol (FREER and PERKIN), 1887, T., 820, 831; P., 95; A., 33; (COLMAN and PERKIN), 1889, T., 352, 357; P., 89; (LIPP), 1889, A., 813.
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- Acetylpropylic benzoate (LIPP), 1889, A., 844.

- Acetylpropylic bromide** (COLMAN and PERKIN), 1889, T., 357.
- Acetylpropylic alcohol** (FITTIG and ERLÉNBAUGH), 1888, A., 1053, 1269.
- Acetylpropylpyrroline** and its derivatives (DENNSTEDT and ZIMMERMANN), 1887, A., 598.
- Acetylprotocatechone** (NEITZEL), 1892, A., 61.
- α -Acetylpyrroline** (CIAMICIAN and DENNSTEDT), 1884, A., 289; (CIAMICIAN and SILBER), 1885, A., 808.
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- Acetylpyrroline**, *tri-* and *pentu-*brom- (CIAMICIAN and SILBER), 1885, A., 1078.
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- Acetylpyrrolines**, *di*bromonitr- [m.p. 206° , 175°] (CIAMICIAN and SILBER), 1887, A., 597; 1888, A., 61.
- Acetylpyrrolinecarboxylic acid** (CIAMICIAN and DENNSTEDT), 1884, A., 290.
- γ -Acetylpyrroline**. See Methyl pyrryl ketone.
- Acetylpyruvaldephenylhydrazone** (JAPP and KLINGEMANN), 1888, T., 526.
- Acetylpyruvic acid** (CLAISEN and STYLOS), 1887, A., 918.
- Acetylquinol**, thio- (LEUCKART), 1890, A., 604.
- Acetylquinoline**, bromamido- (LA COSTE), 1883, A., 91.
- Acetylquinovite** (LIEBERMANN), 1884, A., 1191.
- Acetylscopoletin** (TAKAHASHI), 1889, A., 255.
- Acetylstyrylhydantoin** (PINNER and SPILKER), 1889, A., 705.
- Acetyltetrahydroquinoline** (HOFFMANN and KOENIGS), 1883, A., 1144.
- Acetyltetramethylenecarboxylic acid** (PERKIN), 1883, A., 1083.
- Acetyltetramethyl-*p*-leucaniline** and *-p*-rosaniline (FISCHER and GERMAN), 1883, A., 1098.
- Acetyltetraphenylpyrroline** (FEHLIN), 1889, A., 623.
- Acetylthallin** (SKRAUP), 1886, A., 80.
- Acetylthiocarbamidophenol** (KALCKHOFF), 1888, A., 1110.
- Acetyl- β -thioethylcrotonic anhydride** (AUTENRIETH), 1888, A., 251.
- Acetyl- α -*n*ithionaphthol** (GROSJEAN), 1890, A., 1306.
- Acetylthiophen**. See Acetothienone.
- m*-Acetyltoluene** (ESSNER and GOSSIN), 1885, A., 252.
o-amido-, and some of its derivatives (KLINGEL), 1884, A., 1343; 1886, A., 60.
- Acetyl-*p*-tolueneazo-*p*-cresol** (GOLDSCHMIDT and POLLAK), 1892, A., 974.
- Acetyl-*p*-tolueneazo- and hydrazophenol** (GOLDSCHMIDT and BRUBACHER), 1891, A., 1210.
- Acetyltricarballic anhydride** (DAUMICHEN), 1889, A., 238.
- Acetyltrimethylene** (PERKIN). 1884, A., 1155; 1885, T., 831; (LIPP), 1889, A., 845.
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- Bilganine** (ADRIAN), 1886, A., 816; (ARATA and CANZONERI), 1892, A., 891.
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- ferricyanide (HOIST and BECKURTS), 1887, A., 852; (BECKURTS), 1890, A., 1318.
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- Buxidine** (BARBAGLIA), 1881, A., 188.
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- Caffeine** (*theine*) (TANRET), 1883, A., 97; (BIEDERMANN), 1884, A., 185.
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- isoCinchonine* and its derivatives (*con.*) (JUNGFLEISCH and LÉGER), 1891, A., 1121; 1892, A., 222.
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- and hydrochloro-, specific rotatory power of, under the influence of acids (OUDEMANS), 1883, A., 359.
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- byo-product from the commercial synthesis of (LIEBERMANN and GIESSEL), 1890, A., 647, 803.
- constitution of (CALMELS and GOSSIN), 1885, A., 912.
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- relation of, to atropine (EINHORN), 1890, A., 1010.
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- metameric, and its homologues (EINHORN), 1889, A., 420.
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- Cocaine** (*benzoylmethylecgonine*), hydrogen diaminechromium thiocyanate (CHRISTENSEN), 1892, A., 1001.
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- methiodide and methochloride (EINHORN), 1889, A., 170.
- physiological action of (GRASSET and JEANNEL), 1885, A., 571; (SIGNICELLI), 1888, A., 312; (MOSSO), 1888, A., 864; 1891, A., 486.
- anesthetic action of (GRASSET), 1885, A., 285, 415.
- action of, on the invertebrates (RICHARD), 1885, A., 1002.
- detection of (GOELDNER), 1890, A., 96; (MEZGER), 1890, A., 831; (FERREIRA DA SILVA), 1891, A., 134, 1562; (VITALI), 1891, A., 1561.
- estimation of (LYONS), 1886, A., 1087.
- valuation of crude, from Peru (SQUIBB), 1890, A., 838.
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- Δ-Cocaine* (EINHORN and MARQUARDT), 1890, A., 647, 913; (DECKERS and EINHORN), 1891, A., 475.
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ψ-Codeine (MERCK), 1891, A., 1121.

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ψ-Conhydrine (LADENBURG), 1891, A., 1119.

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α-Coniceine and its derivatives (v. HOFMANN), 1885, A., 101.

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γ-Coniceine and its derivatives (v. HOFMANN), 1885, A., 562; (LELLMANN and MULLER), 1890, A., 802.

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- Cryptopine and its derivatives** (KAUBER), 1887, A., 1122; (BROWN and PERKIN), 1891, P., 166.
- Cupreine** (HESSE), 1885, A., 276; 1886, A., 83; (PAUL and COWNLEY), 1885, A., 564, 997; (OUDEMANS), 1889, A., 1018; (GRIMAUD and ARNAUD), 1892, A., 1253.
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- Cusparine and its salts** (KÜNNER and BÜHNINGER), 1884, A., 341; (BECKURTS and NEHRING), 1892, A., 643.
- Cyanoconiine and its derivatives** (v. MEYER), 1883, A., 352.
- Cytisine** (VAN DE MOER), 1891, A., 231; (v. BUCHKA and MAGALHÃES), 1891, A., 587; (PARTHELL), 1891, A., 750, 946.
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- Daturine**, preparation of, from *Stramonium* seeds (HAETZ), 1885, A., 820.
- Dehydrocinchenine** (COMSTOCK and KOENIGS), 1887, A., 282.
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- Dehydrocinchonine**, hydrobromide (COMSTOCK and KOENIGS), 1887, A., 1125.
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- Delphinine**, composition and properties of (CHAILALAMPI), 1891, A., 843.
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- Diacetylmorphine and its derivatives** (HESSE), 1884, A., 613.
- Dicinchonine** (HESSE), 1885, A., 675.
- Diapocinchonine** (JUNGLEIN and LÉGER), 1892, A., 1253.
- Dihydrocinchonine** (COMSTOCK and KOENIGS), 1884, A., 1384.
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- Dimethoxyconiine** (v. HOFMANN), 1885, A., 563.
- Dimethyleinchonine** (FREUND and ROSENSTEIN), 1892, A., 892.
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- d-Ecgonine** (EINHORN and MARQUARDT), 1890, A., 646, 913.
- Ecgonines, d- and l-**, oxidation products of (LIEBERMANN), 1891, A., 749.
- Emetine** (KUNZ), 1887, A., 980.
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- ψ -**Ephedrine** and its derivatives (LADENBURG and OELSCHLÄGER), 1889, A., 1020.
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- Ergotinine** (TANRET), 1885, A., 84; (BOMBELON), 1888, A., 970.
- Eserine**, reaction for (FERREIRA DA SILVA), 1891, A., 1562.
- Ethylbenzoylcegonine** (NOVY), 1887, A., 1126.
- Ethylbenzoyl- α -ecgonine** (EINHORN and MARQUARDT), 1890, A., 913.
- Ethylpöcöcinenine** (COMSTOCK and KOENIG), 1885, A., 1249.
- α -Brom-** (COMSTOCK and KOENIG), 1888, A., 72.
- Ethylcinchonamine** (HESSE), 1885, A., 66.
- Ethyl- α -cocaine aurochloride** (EINHORN and MARQUARDT), 1890, A., 913.
- Ethylenedimorphine** (*Nicodethine*) (GRIMAUD), 1883, A., 359.
- Ethylhydrastamide** (FREUND and HEIM), 1891, A., 92.
- Ethylhydrastine** (FREUND and ROSENBERG), 1890, A., 533.
- Ethylhydrastine** (POWER), 1885, A., 675; (KERSTEIN), 1890, A., 74; (SCHMIDT and KERSTEIN), 1890, A., 649.
- ethiodide** (FREUND and ROSENBERG), 1890, A., 533.
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- Ethylhydroberberine** (GAZE), 1890, A., 1012.
- derivatives** (LINK), 1892, A., 1499.
- Fagine** (HABERMANN), 1885, A., 676.
- Fumarine** (REICHWALD), 1890, A., 272.
- Galipeine** and its salts (KÖRNER and BOHRINGER), 1881, A., 311.
- Galipidine** and **galipine** (BECKURTS and NEHRING), 1892, A., 642, 643.
- Gelseminine** (THOMPSON), 1887, A., 981.
- Gerontine** (GRANDIS), 1891, A., 588.
- Glaucine** (BATTANDIER), 1892, A., 893.
- Harmaline**, **harmalol** and **harmine** (FISCHER and TAUBER), 1885, A., 820; (FISCHER), 1889, A., 730.
- apoHarmine** (FISCHER), 1889, A., 731.
- Hexahydronicotine** (BLAU), 1891, A., 588; 1892, A., 1365.
- ψ -**Homöotropine** (LIEBERMANN and LIMPACH), 1892, A., 891.
- Homöchelidonine**, α - and β - (SELLE), 1891, A., 229.

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- γ -Homöchelidonine** (KÖNIG), 1891, A., 811.
- Homöpöcöcinenine** and its derivatives (COMSTOCK and KOENIG), 1888, A., 72.
- β -Homöcöcönidine** (HESSE), 1890, A., 1166.
- Homönapelline** (DUNSTAN and UMBREY), 1892, T., 393.
- Homöquinine** (PAUL and COWNLEY), 1885, A., 563, 997; (HESSE), 1884, A., 1381; 1886, A., 83; 1890, A., 1166.
- synthesis of** (HESSE), 1885, A., 276.
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- Hopeine** (LADENBURG), 1886, A., 269, 563; (WILLIAMSON), 1886, A., 724.
- Hydrastaldehyde** (FREUND), 1889, A., 1221.
- Hydrastine**, constitution of (FREUND and ROSENBERG), 1890, A., 531.
- Hydrastine** (POWER), 1885, A., 675; (LYONS), 1886, A., 633; (LINKMAN), 1887, A., 505; (FREUND and WILL), 1887, A., 171, 383; (FREUND), 1889, A., 627, 908, 1221; 1890, A., 534; (FREUND and LACHMANN), 1889, A., 1220; (KERSTEIN), 1890, A., 74; (FREUND and ROSENBERG), 1890, A., 532; (HEIM), 1890, A., 1333; (FREUND and HEIM), 1891, A., 92; (FREUND and PHILIPS), 1891, A., 93; (FREUND and DORMEYER), 1891, A., 1518; 1892, A., 223.
- constitution of** (FREUND), 1889, A., 1222; 1890, A., 534.
- derivatives** (POWER), 1885, A., 675; (FREUND and WILL), 1887, A., 1057; (SCHMIDT and WILHELM), 1888, A., 1212; (SCHMIDT and KERSTEIN), 1890, A., 648.
- alkyl derivatives of** (SCHMIDT), 1890, A., 1167; (FREUND and HEIM), 1891, A., 92; (FREUND and PHILIPS), 1891, A., 93.
- allylic iodide** (FREUND and PHILIPS), 1891, A., 93.
- ferrocyanide** (BECKURTS), 1890, A., 1318.
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- reactions of** (v. HIRSCHHAUSEN), 1885, A., 606; (LYONS), 1886, A., 633; (VITALI), 1892, A., 755.

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- Hydrastine-ethylammonium hydr-oxide** (WILHELM), 1888, A., 1212.
- Hydrastine-methylammonium hydr-oxide** (SCHMIDT), 1890, A., 1167.
- Hydrastinine** (FREUND and WILL), 1887, A., 383.
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- Hydrastophthalimidine** (FREUND and PHILIPS), 1891, A., 94.
- Hydroberberine** (SCHMIDT), 1884, A., 339; (BERNHILMER), 1884, A., 340; (GAZE), 1890, A., 1011; 1891, A., 332; (LINK), 1892, A., 1498.
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- Hydrocinchonidine** and its salts (HESSE), 1883, A., 97.
- Hydrocotarnine**, physiological action of (STOCKMAN and DOTT), 1891, A., 762.
- Hydrocupreine** (HESSE), 1888, A., 71.
- Hydrohydrastine** (POWER), 1885, A., 675.
- Hydrohydrastinine** (FREUND and WILL), 1887, A., 384.
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- Hydronicotine** (ETARD), 1884, A., 464.
- Hydroquinicine** (HESSE), 1888, A., 70.
- Hydroquinidine** and its sulphate (HESSE), 1883, A., 602.
- Hydroquinine** and its derivatives (HESSE), 1888, A., 69.
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- Hydroquininesulphonic acid** (HESSE), 1888, A., 71.
- Hydrotropidine** and its salts (LADENBURG), 1883, A., 1155.
- Hydrotropine iodide** (LADENBURG), 1883, A., 672.
- Hydroxybenzotropeine** and its salts (LADENBURG), 1883, A., 671.

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- α -Hydroxycinchonine** and its derivatives (JUNGFLEISCH and LÉGER), 1888, A., 380, 507; 1889, A., 906.
- β -Hydroxycinchonine** (JUNGFLEISCH and LÉGER), 1888, A., 380, 507.
- Hydroxycyanoconiine** and its derivatives (V. MEYER), 1883, A., 352, 354; (RIESS), 1885, A., 235.
- Hydroxyhydrastinine** and its derivatives (FREUND and WILL), 1887, A., 1057.
- Hydroxymethylhydrohydrastinine methiodide**, bromo- (FREUND and DORMEYER), 1891, A., 1520.
- Hygrine** (BIGNON), 1886, A., 388; (STOCKMAN), 1888, A., 508; (LIEBERMANN), 1889, A., 732; (LIEBERMANN and KÜHLING), 1891, A., 586.
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- Hymenodictyonine**, the bitter principle of *Hymenodictyon excelsum* (NAYLOR), 1883, A., 1141; 1885, A., 565.
- Hyosine** (LADENBURG), 1884, A., 761; 1892, A., 1366; (SCHMIDT), 1892, A., 1255, 1498; (HESSE), 1892, A., 1498.
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- Hyoscyamine**, existence of, in the lettuce (DYMOND), 1891, P., 165; 1892, T., 90.
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- Hypocaffeine** and its salts (FISCHER), 1883, A., 356.
- Imperatorine** (*powderanine*), reactions of (BROCIENER), 1890, A., 310.
- Imperialine** and its derivatives (FRAGNER), 1889, A., 284; (JAS- SOY), 1890, A., 1154.
- Jaboridine** (HARNACK), 1886, A., 85.
- Jaborine** (HARDY and CALMELS), 1886, A., 815.
- Japaconitine** (MANDELIN), 1885, A., 911.
- Jervine** and ψ -jervine (PEHKSCHEN), 1891, A., 88.
- Laserpitine** and its derivatives (KÜLZ), 1884, A., 182.
- Laudanine** (HESSE), 1884, A., 616.

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- Laurotetanine**, the active principle of certain Lauraceae (GIESHOFF), 1891, A., 337.
- Lobeline** (PACHKIN and SMIT), 1890, A., 1169.
- Lupanine** (HAGEN), 1886, A., 163; (SIEBERT), 1892, A., 223.
- Lupinidine** from *Lupinus luteus*, and its derivatives (BAUMERT), 1885, A., 177.
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- Lupinindine** (BAUMERT), 1884, A., 1387.
- Lupinine**, action of acetic chloride and anhydride on (BAUMERT), 1884, A., 1387.
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- Lycaconine**, lycaconitine, and lycocotonine (DRAGENDORFF and STÖHN), 1885, A., 403.
- Macleynine** (EIJKMAN), 1885, A., 404.
- Mandelic ψ -tropine** (ψ -homatropine) (LIEBERMANN and LIMPACH), 1892, A., 891.
- Mandragorine** (AURENS), 1889, A., 1074, 1222.
- Mannitine** (SCHILLONE and DENARO), 1883, A., 50.
- Meconarceine** (MERCK), 1889, A., 906.
- Meconine** (WEGSCHEIDER), 1883, A., 996.
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- ψ -Meconine** and its derivatives (SALOMON), 1887, A., 585; (PERKIN), 1890, T., 1072.
- Methoxyhydrocotarnine methiodide** (ROSEN), 1890, A., 581.
- Methoxyquinine methiodide** (GRIMAUX), 1892, A., 1363.
- Methylanthydroecgonine methiodide** (EINHORN), 1889, A., 170.
- Methylarecaine** (JAHNS), 1892, A., 789.
- Methylbrucine**, ammonium base obtained from (HANSEN), 1885, A., 819.
- Methylapocinchénine** and its hydrochloride (COMSTOCK and KOENIGS), 1885, A., 1248.
- Methylcinchonamine** (HESSE), 1885, A., 66.

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- Methylcocaine** (LIEBERMANN and GIESEL), 1890, A., 647, 803; (EINHORN and MARQUARDT), 1890, A., 913; (GIESEL), 1890, A., 1011.
- Methylcodeine** and its derivatives (GRIMAUX), 1883, A., 359; (HENSE), 1884, A., 614.
- Methylcolchicine** (JOHANNY and ZEISEL), 1889, A., 282.
- Methylconiine** (PASSON), 1891, A., 1118.
- Methyleytisine** (v. BUCHKA and MAGALHAES), 1891, A., 750.
- Methyldeoxystrychnine** (TAFEL), 1892, A., 1014.
- Methylecgonine** (LIEBERMANN and GIESEL), 1890, A., 647; (EINHORN and MARQUARDT), 1890, A., 913.
- Methylhydrastallylamide** (FREUND and HEIM), 1891, A., 93.
- Methylhydrastamide** (FREUND and HEIM), 1891, A., 92.
- Methylhydrastisoamylamide** (FREUND and HEIM), 1891, A., 93.
- Methylhydrastaine** (FREUND and ROSENBERG), 1890, A., 533.
- Methylhydrastethylamide** (FREUND and HEIM), 1891, A., 93.
- Methylhydrastimide** and its methiodide (FREUND and HEIM), 1891, A., 92.
- Methylhydrastine** and its methiodide (FREUND and ROSENBERG), 1890, A., 532; (SCHMIDT), 1890, A., 1167.
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- Methylhydrastomethylamide** (FREUND and HEIM), 1891, A., 93.
- Methylhydroberberine** (GLACOSA and SOAVE), 1890, A., 920; (GLAZER), 1890, A., 1012.
- Methylhydrohydrastinine** and its derivatives (FREUND and DORMMEYER), 1891, A., 1510.
bromo- (FREUND and DORMMEYER), 1892, A., 223.
- Methylmorphomethine**. See Codomethine under Alkaloids.
- Methynarceine** and its salts (CLAUS and RITZFIELD), 1885, A., 997.
- Methylquinidine** (CLAUS), 1892, A., 1250.
- Methylquinine**, preparation of (LIPP-MANN), 1892, A., 222.
- Methylstrychnine** (TAFEL), 1890, A., 1447; 1891, A., 1263.
- isoMethylstrychnine** (TAFEL), 1891, A., 1264.

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- α -Methyltropidine** and its derivatives (ROTH), 1881, A., 761; (MERLING), 1892, A., 358.
- β -Methyltropidine** (MERLING), 1892, A., 359.
- Methyltropine**, decomposition of, by potash (LADENBURG), 1883, A., 672.
- Moradeine** (ARATA and CANZONERI), 1890, A., 405.
- Morphine** (v. GERICHTEN and SCHREÜTER), 1883, A., 221; (HESSE), 1884, A., 613; (PLUGGE), 1887, A., 280; (KNORR), 1889, A., 905.
- from *Papaver Rhoeas* (HESSE), 1890, A., 646.
- from *Escholtzia* (*Eschscholzia*) *californica* (BAUDET and ADRIAN), 1889, A., 644.
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- constitution of (KNORR), 1889, A., 417, 906; (SKRAUP and WIEGMANN), 1889, A., 1018.
- water of crystallisation of (HESSE), 1889, A., 417.
- cryoscopic behaviour of solutions of compounds of (v. KLOBUKOFF), 1889, A., 933.
- action of alcoholic potash on (SKRAUP and WIEGMANN), 1889, A., 1018.
- action of potassium chromate on (DITZLER), 1886, A., 1047.
- action of sulphuric acid on, in presence of dibasic acids (CHASTAING and BARILLOT), 1888, A., 165.
- oxidation of (BARTH and WEIDEL), 1884, A., 85.
- derivatives (GRIMAUD), 1883, A., 358; (HESSE), 1884, A., 613; (FITCHER and v. GERICHTEN), 1886, A., 563; (DANCKWORTT), 1891, A., 332.
- ferrocyanide (BROCKURTS), 1890, A., 1318.
- hydrate (DOTT), 1888, A., 506.
- hydriodide (KUNZ), 1888, A., 855.
- hydrochloride, rotatory dispersion of (GRIMBERT), 1888, A., 329.
- hydrogen diaminechromium thiocyanate (CHRISTENSEN), 1892, A., 1001.
- hydrogen meconate (DOTT), 1887, A., 505.
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- Morphine**, physiological action of (STOCKMAN and DOTT), 1890, A., 1178.
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- Morrenine** (ARATA and GELZER), 1891, A., 1122.
- Morrhaine** (GAUTIER and MOURGUES), 1888, A., 1315; 1889, A., 63.
- Myocetonine** (DRAGENDORFF and SPOHN), 1886, A., 403; (DRAGENDORFF and SALOMONOWITSCH), 1887, A., 858.
- Nandinine** (ELJEMAN), 1885, A., 565.
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- Narceine**, reaction of (PLUGGER), 1887, A., 870; (FERREIRA DA SILVA), 1891, A., 1562.
- Narcotine** (PLUGGER), 1887, A., 280; (ROSER), 1888, A., 1115, 1316; 1889, A., 417; 1890, A., 528. constitution of (ROSER), 1890, A., 531. oxidation of (SCHMIDT and KERSTEIN), 1890, A., 648. ferrocyanide (BECKHUIS), 1890, A., 1318. physiological action of (STOCKMAN and DOTT), 1891, A., 762. reaction of (FERREIRA DA SILVA), 1891, A., 1562; (VITALI), 1892, A., 756. bromine as a test for (EILOART), 1885, A., 96.
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- Nicotine**, influence of, on salivary secretion (LANGLEY), 1890, A., 397. poisoning by (RABOT), 1885, A., 416. estimation of (SCHUEFFER), 1885, A., 601. estimation of, in presence of ammonia (PEZZOLATO), 1891, A., 771. estimation of, in tobacco (BIEL), 1888, A., 876; (KISSLING), 1890, A., 430.
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- ψ -Nicotine oxide** (PINNER and WOLFFENSTEIN), 1892, A., 1010.
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- Ononine**, reaction of (BROCHNER), 1890, A., 310.
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- Oxyeichenine** and its derivatives (KOENIGS), 1890, A., 1433.
- Oxyconiceine** and its derivatives (v. HOFMANN), 1885, A., 563.
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- Oxyhydrastine** and its constitution (FREUND), 1889, A., 627, 1222. synthesis of, from methylic ω -chloroethylpiperonylcarboxylate (PERKIN), 1890, T., 997, 1034.
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- Papaverine** (GOLDSCHMIEDT), 1884, A., 186; 1885, A., 1080; 1886, A., 83, 478; 1887, A., 163; 1888, A., 1116; (PLUGGER), 1887, A., 280. composition of (PLUGGER), 1887, A., 852.

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- Quinine**, action of lime on (HASLAM), 1885, A., 1267.
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- Salicylic tropeine** (LADENBURG), 1883, A., 671.
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- Sinapine**, investigations on (REMSEN and COALE), 1884, A., 1387.
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- Strychnine**, separation of, from
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- Trigonelline** and its salts (JAHNS),
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- Tritopine** (KAUDER), 1891, A., 227.
- Tropeines** (LADENBURG), 1883, A., 671.
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- ψ -**Tropine** (LADENBURG and ROTH),
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- Alkaloid-like bases** in Galician petro-
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- Alkophyr** (v. BRÜCKE), 1886, A., 338,
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- m*-Amidobenzylidene-2'-methylquinoline [ul.p. 158°] (WARTANIAN), 1891, A., 330.
- m*-Amidobenzylidene-4'-methylquinoline (HEYMAN and KOENIGS), 1888, A., 1114.
- Amidoisobenzylidenephthalimidine (GABRIEL), 1886, A., 631.
- o*-Amidobenzylidenerhodanic acid (BONDZYNSKI), 1887, A., 1109.
- p*-Amidobenzylphthalimidine (HAFNER), 1889, A., 982; 1890, A., 487.
- o*-Amidobenzyl-*p*-toluidine (SÜDERBAUM and WIDMAN), 1890, A., 1258.
- hydrochloride (BUSCH), 1892, A., 734.
- Amidobisazobenzene (NIETZKI and DIESTERWEG), 1888, A., 1082.
- Amidobrucine (HANSEN), 1886, A., 561.
- Amidoisobutylbenzene. See *iso*Butylbenzene.
- 2-Amido-5-isobutyltoluene (EFFRONT), 1884, A., 899; 1885, A., 151.
- Amidobutyric acid. See Butyric acid.
- Amidocarbamidophenol (KATAKHOFF), 1883, A., 1110.
- Amidocarbazole (MAZZARA and LEONARDI), 1892, A., 616.
- di*Amidocarbazole, synthesis of, from benzidine (TAUBER), 1891, A., 227.
- synthesis of, from carbazole (TAUBER), 1892, A., 480.
- p*-Amidocarbinols (O. and G. FISCHER), 1891, A., 695.
- Amidocarbonylsulphamyl. See Amylic thiocarbamate.
- γ -Amidocarbostyryl (FRIEDLÄNDER and LAZARUS), 1885, A., 1139.
- Amidocarboxyphenyloxamic acid (GRIESS), 1885, A., 1225; 1888, A., 827.
- di*Amidocarvaerol (MAZZARA), 1891, A., 47.
- Amidochrysene (ABERG), 1890, A., 789; (BAMBERGER and BURGDORF), 1890, A., 902, 1313.
- Amidochryso-quinol and quinone, salts of (ABERG), 1891, A., 731.
- α -Amidocinnamic acid (PLÜCH), 1884, A., 1349.
- derivatives of (ROTHSCHILD), 1890, A., 1123; 1891, A., 198.
- Amidocinnamic acids, nitration of (FRIEDLÄNDER and LAZARUS), 1885, A., 1138.
- carbamide derivatives of (ROTHSCHILD), 1890, A., 1123; 1891, A., 198.
- β -Amidocinnamonitrile (HOLTZWART), 1889, A., 683.
- Amidochloro-. See Chloramido-.
- Amidocomenic acid, action of phosphorus pentachloride on (FRELMANN), 1884, A., 840.
- Amido-compounds in the animal system (BAHLMANN), 1887, A., 512.
- action of dilute nitric acid on (NORTON and LIVERMORE), 1887, A., 1038.
- action of nitrous acid on (KLOBBE), 1891, A., 292.
- action of phenylic isocyanate on (KÜHN), 1885, A., 260, 979.
- formation of haloid substitution derivatives of, by the reduction of nitro-derivatives of hydrocarbons (KOCK), 1887, A., 810.
- formation of thiocyanates from (GATTERMANN and HAUSKNECHT), 1890, A., 749.
- Amido-compounds, aromatic, action of silicon tetrachloride on (HARDEN), 1886, P., 251; 1887, T., 40.
- Amidocoumarin (TARGE), 1887, A., 939; 1891, A., 918.
- Amidocresols. See Cresol.
- β -Amidocrotonanilide (KNORR), 1892, A., 708; (LEDERER), 1892, A., 965.
- β -Amidocrotonitrile (HOLTZWART), 1889, A., 683.
- Amidocumene. See Cumidine.
- p*-*di*Amidocumene (KEHRMANN and MESSINGER), 1891, A., 298.
- Amido- ψ -cumenol and the action of acetic anhydride on (LIEBERMANN and V. KOSTANECKI), 1884, A., 1147.
- o*-Amidocuminic acid (WIDMAN), 1886, A., 466.
- di*Amidocuminic acid and its hydrochloride (LIEPMANN), 1883, A., 194.
- di*Amido- ψ -cuminic acid (NEF), 1888, T., 433.
- Amidocumylacrylic acids, *o*- and *m*-, and their salts (WIDMAN), 1886, A., 467.
- Amido- ψ -cumylenethenylamine (AUWERS), 1886, A., 144.
- m*-Amidocumylpropionic acid (WIDMAN), 1886, A., 467.
- m*-Amidocyanobenzoic acid (TRAUBE), 1883, A., 192.
- Amido*di*cyanobenzoyl, derivatives of (GRIESS), 1885, A., 1225.
- di*Amido*di*cyanocarboxylic acid. See Ammelide.
- Amido-*p*-cyanophenylacetic acid (TRAUBE), 1883, A., 193.
- Amidocyanophenyglyoxylic acid (GRIESS), 1885, A., 1226.
- p*-*di*Amido-*p*-cymene hydrochloride (LIEBERMANN and V. ILINSKI), 1886, A., 240.
- Amidocymenesulphonic acid. See Cymidinesulphonic acid.
- p*-Amidodeoxycybenzoinoxime (NEF), 1888, A., 1197.

- di*Amidodicrosol, action of nascent nitrous acid on (DENINGER), 1890, A., 38.
- Amidodicyanic acid (WUNDERLICH), 1886, A., 435.
- di*Amido-1,4-diethoxybenzene. See Diethoxyphenylenediamine.
- Amidodiethoxyresorcinol (WILL and PUKALL), 1887, A., 661.
- p*-Amidodiethylaniline. See Diethyl-*p*-phenylenediamine.
- β -Amidodiethylanilinesulphonic acid (BERNTHSEN), 1889, A., 776.
- di*Amidodithylic sulphoxide, picrate of (CROSS and BEVAN), 1892, A., 130.
- o*-Amidodiethylresorcinol hydrochloride (PUKALL), 1887, A., 662.
- p*-Amidodiethyl-*o*-toluidine. See Methylethylphenylenediamine.
- Amidodihydroindoxyl, derivatives of (BURMEISTER and MICHAELIS), 1891, A., 1068.
- Amidodihydroxynaphthalene. See Dihydroxynaphthylamine.
- 4-Amido-2,6-dihydroxypyridine. See Glutazine.
- di*Amidodihydroxyquinone (NIETZKI and SCHMIDT), 1888, A., 943.
- 4-Amido-1,3-dimethoxybenzene and its derivatives (BECHOLD), 1889, A., 1155.
- Amidodimethylaniline. See Dimethylphenylenediamine.
- di*Amidodimethylcarbazole (TAUBER and LOEWENHERZ), 1891, A., 834.
- Amidodimethyleyanidine (TSCHERVEN-IVANOFF), 1892, A., 1291.
- 4-Amido-2,6-dimethyl-*m*-diazine (SCHWARZE), 1890, A., 1159.
- m*-Amido-*o*,*o*-dimethylindene (V. MILLER and RÜHDE), 1890, A., 1138.
- Amido-1,3-dimethylquinoline (NÖLTING and TRAUTMANN), 1891, A., 328; 1892, A., 729.
- Amido-1,4-dimethylquinoline (MARCKWALD), 1890, A., 1004.
- Amidodimethyl- α -resorcylic acid (MEYER), 1888, A., 148.
- di*Amidodimethylstilbene sulphide (ANNSCHÜTZ and SCHULTZ), 1889, A., 602.
- di*Amidodinaphthyl and its derivatives (NIETZKI and GOLL), 1886, A., 215.
- di*Amidodinaphthyl derivatives (JULIUS), 1887, A., 56.
- tetra*Amidodinaphthyl (STAUB and SMITH), 1885, T., 106.
- 1:3'-*di*Amidodinaphthyl disulphide (EKBOM), 1891, A., 573.
- 1:4'-*di*Amidodinaphthyl disulphide (EKBOM), 1890, A., 994.
- 3:3'-*di*Amido- and *tetra*-amido-4:4'-diphenol (KUNZE), 1889, A., 262.
- di*Amido-*o*-diphenyl [m.p. 81°] (TAUBER), 1891, A., 570.
- di*Amidodiphenyl [m.p. 125°] (BERNTHSEN), 1886, A., 471.
- m*:*m*-*di*Amidodiphenyl [m.p. 257°] (BRUNNER and WITT), 1887, A., 678.
- o*:*p*-*di*Amidodiphenyl [m.p. 45°]. See *iso*Benzidine.
- p*:*p*-*di*Amidodiphenyl [m.p. 122°]. See Benzidine.
- tetra*Amidodiphenyl. See *di*Amidobenzidine.
- o*-Amidodiphenylamine. See Phenylphenylenediamine.
- 2:4'-*di*Amidodiphenylamine (KEHRMANN and MESSINGER), 1892, A., 1109.
- tri*Amidodiphenylamine (NIETZKI and ERNST), 1890, A., 1114.
- m*-Amidodiphenylcarbamide (LEUCKART), 1890, A., 760.
- α -*di*Amidodiphenylcarbinol (WICHELHAUS), 1889, A., 781.
- β -*di*Amidodiphenylcarbinol and its compounds (STARDEL), 1883, A., 991.
- 4-Amido-2,6-diphenyl-*m*-diazine, formation of (SCHWARZE), 1890, A., 1159.
- Amidodiphenyldisulphonic acid (LIMPRICHT), 1891, A., 930.
- di*Amidodiphenylene ketone oxide and its hydrochloride (PERKIN), 1883, T., 191.
- di*Amidodiphenyleneazone (TAUBER), 1892, A., 184.
- Amidodiphenylene-*m*-phenylenediamine (FISCHER and HIEPP), 1890, A., 614.
- di*Amidodiphenylenic oxide (GALINSKY), 1891, A., 1234.
- m*-Amidodiphenylmethane (BROKER), 1883, A., 202, 203.
- p*-Amidodiphenylmethane (BASLER), 1881, A., 310.
- p*-Amidodiphenylmethane derivatives (MANN), 1889, A., 261.
- p*-*di*Amidodiphenylmethane and its nitro-derivatives (GRAM), 1892, A., 618.
- tetra*Amidodiphenylmethane and its compounds (STARDEL), 1883, A., 991.
- 4-Amido-2,6-diphenyl-5-methyl-*m*-diazine (V. MEYER), 1889, A., 578; 1890, A., 68; (SCHWARZE), 1890, A., 1159.
- p*-Amidodiphenylmethylpyrazolecarboxylic acid (KNORR and JÖDICKE), 1885, A., 1248.

- o*-Amidodiphenylmethylpyrazolecarbonylic anhydride (KNORR and JÖDICE), 1885, A., 1248.
- di*Amidodiphenylphosphinic acid (DÖNKEN), 1888, A., 834.
- p*-*di*Amidodiphenylpiperazine, formation of colouring matters from (LELLMANN and SCHLEICH), 1889, A., 904.
- Amidodiphenylquinoxaline (NIETZKI and MÜLLER), 1889, A., 605.
- Amidodiphenylsulphamic acid (SPIEGEL), 1885, A., 987.
- di*Amidodiphenylsulphone and its derivatives (LAUTH), 1892, A., 1093.
- p*-Amidodiphenylsulphonic acid (CARNELLEY and SCHLESSELMANN), 1886, T., 380; P., 184.
- Amidodiphenylthiocarbamides (LELLMANN and WÜRTNER), 1885, A., 977.
- tri*Amidodiphenyltolylearbinol. See Rosaniline.
- tri*Amidodiphenyltolylmethane. See Leucaniline.
- di*Amidoditetrahydronaphthylcarbamide (BAMBERGER and BAMMANN), 1889, A., 788.
- di*Amidoditolyl. See Tolidine.
- o*-Amidoditolylamine. See Tolytolylenediamine.
- 2-Amido-5:5'-ditolyl-4:4'-disulphonic acid (HELLE), 1892, A., 1467.
- di*-*p*-Amidodi-*m*-tolyllic disulphide (JACOBSON and NEY), 1889, A., 771.
- Amidodi-*o*-tolyltolylenediamine (KUHLEWEIN), 1890, A., 371.
- di*Amidodixyls and colouring matters derived therefrom (NÖLTING and STRICKER), 1889, A., 135.
- di*Amidodurylic acid. See *di*Amido- ψ -cuminic acid.
- Amidoethanesulphonic acid. See Taurine.
- di*Amidoethoxydiphenyl (WEINBERG), 1888, A., 285.
- di*Amidoethoxydiphenylsulphonic acid (WEINBERG), 1888, A., 285; (FEER and MÜLLER), 1889, A., 258.
- 1:4-Amidoethoxynaphthalene (GRANDMOUGIN and MICHEL), 1892, A., 862; (HEERMANN), 1892, A., 1097. derivatives of (HEERMANN), 1892, A., 1097.
- 8-Amidoethoxynaphthalene (GIESSE), 1891, A., 459.
- di*Amidoethoxynaphthylphenyl (WEINBERG), 1888, A., 286.
- di*Amidoethoxyphenyltolylsulphonic acid (WEINBERG), 1888, A., 286.
- 4-Amido-1-ethoxyquinoline (VIA), 1892, A., 1105.
- o*-Amidoethylaniline. See Ethylphenylenediamine.
- Amidoethylbenzenes, derivatives of (PAUCKSCH), 1884, A., 1142; 1885, A., 255.
- o*-Amidoethylbenzenesulphonic acid (PAUCKSCH), 1885, A., 256.
- ω -Amidoethylbromopiperonylcarboxylic anhydride (PERKIN), 1890, T., 1017.
- Amidoethylic acetate (GABRIEL and HEYMANN), 1890, A., 1268.
- Amidoethylic alcohol. See Hydroxyethylamine.
- Amidoethylic benzoate, salts of (GABRIEL and HEYMANN), 1890, A., 1267.
- m*-Amidoethylic cumate (ABENIUS), 1888, A., 854.
- Amidoethylindene (v. MILLER and RÖHDE), 1889, A., 984.
- 1-Amidoethylpiperidine (GABRIEL), 1891, A., 817.
- ω -Amidoethylpiperonylcarboxylic acid, preparation of (PERKIN), 1890, T., 1053. action of heat, of methylic iodide, and of nitrous acid on (PERKIN), 1890, T., 1058. salts of, with acids (PERKIN), 1890, T., 1056. anhydride of (PERKIN), 1890, T., 993, 1013.
- di*Amidoethylsulphone (GABRIEL), 1892, A., 131.
- p*-Amidoethyl-*o*-toluidine. See Methyl-ethylphenylenediamine.
- Amidoethylxylenes (TÜHL and GEYGER), 1892, A., 969.
- p*-Amidofluorene (STRASBURGER), 1884, A., 329, 754.
- Amidofumaric acid, diamide of (PERKIN), 1888, T., 703.
- Amidogen (NH₂), alleged existence of (CUMBER), 1883, A., 14. substitution of, by means of sodamide (WALTER), 1886, A., 1004.
- Amidoglycocine (CURTIUS), 1891, A., 56.
- Amido-group, displacement of the, by the acetyl-group by aid of the diazo-reaction (MELDOLA), 1888, A., 487. displacement of the, by the cyanic acid residue and by halogens, cyanogen and thiocyanogen (GATTERMANN, HAUSKNECHT, CANTZLER and EHRHARDT), 1890, A., 971. displacement of the, in aromatic amines by the halogens (LO-SANTINI), 1885, A., 521.

- Amido-group**, displacement of the, in aromatic derivatives by chlorine, bromine and cyanogen (SANDMEYER), 1884, A., 1311; 1885, A., 149.
- displacement of the, in aromatic compounds by hydrothionyl and oxysulphuryl (KLASON), 1887, A., 478.
- displacement of the, by the sulphonic acid group (LANDSBERG), 1890, A., 1137.
- displacement of cyanogen by the (AHRENS), 1888, A., 266.
- displacement of halogens by the (SEELIG), 1891, A., 36.
- displacement of the nitro-group in aromatic compounds by the (SANDMEYER), 1887, A., 720.
- best method of elimination of (FRIEDLANDER), 1889, A., 606.
- reagent for (HINSBERG), 1891, A., 49.
- Amido-groups** in organic bases, method of determining the number of (MELDOLA and HAWKINS), 1892, P., 133.
- di*Amidoguaiacol (HERZIG), 1883, A., 464.
- Amidoguanidine** and its derivatives (THIELE), 1892, A., 1295.
- Amidohemipinic acid**, sodium salt of (GRUNE), 1887, A., 49.
- o*-Amidohemipinic anhydride (LIEBERMANN), 1886, A., 468; 1887, A., 257; (GRUNE), 1887, A., 48.
- o*-Amidohemiphenylhydrazide (LIEBERMANN), 1887, A., 45.
- Amidoheptamethylene** (MARKOWNIKOFF), 1890, A., 729.
- Amidoheptylbenzene** (AUGER), 1887, A., 816.
- p-di*Amidohexamethylene (v. BAeyer and NOYES), 1889, A., 1147.
- di*Amidohexane and its derivatives (TAFEL), 1889, A., 976; (TAFEL and NEUGERBAUER), 1890, A., 1000.
- α -amidohexocyanidine and α -amidohexocyanine (D'VILLIER), 1887, A., 850.
- α -Amidohexoic acid. See Leucine.
- di*Amidohydracridine ketone and its derivatives (JOURDAN), 1885, A., 988.
- o*-Amidohydrazinebenzene-*p*-sulphonic acid. See Amidophenylhydrazine-sulphonic acid.
- Amidohydrocarbostyryl** (FISCHER and KUZEL), 1884, A., 441.
- di*Amidohydrocinnamic acid. See *di*Amido- β -phenylpropionic acid.
- Amidohydrothiocinnamic acid** (BONDZYŃSKI), 1887, A., 1109.
- Amidohydroxyanthraquinone ethylate** (LIEBERMANN and HAGEN), 1883, A., 73.
- Amido-*o*-hydroxybenzoic acid**. See Amidosalicylic acid.
- 4-Amido-*m*-hydroxybenzoic acid** (LIMPRICHT), 1891, A., 1037.
- β -Amido- α -hydroxybutyric acid** (MELNIKOFF), 1884, A., 1301.
- Amidohydroxyisobutyric acid** (MELNIKOFF), 1885, A., 650.
- Amidohydroxycamphor** (KACHLER and SPITZER), 1883, A., 1008.
- di*Amidohydroxydiphenyl (WEINBERG), 1888, A., 285.
- p*-Amido-*m*-hydroxydiphenylamine (KOHLE), 1888, A., 587.
- 4-Amido-4'-hydroxydiphenyl-2:2'-disulphonic acid** (LIMPRICHT), 1891, A., 929.
- 4:4'-*di*Amido-3-hydroxydiphenyl-6-sulphonic acid** (WEINBERG), 1888, A., 285.
- 2-Amido-2'-hydroxy-5:5'-ditolyl-4 4'-disulphonic acid** (HELLER), 1892, A., 1468.
- 4-Amido-1-hydroxy-3-methoxybenzene** (BECHHOLD), 1889, A., 1155.
- 2-Amido-2'-hydroxy-3-methylhydroquinoline** (EDRLEANU), 1888, T., 500; P., 55.
- 2-Amido-1-hydroxy-4-methylquinoline** (GANELIN and v. KOSTANECKI), 1892, A., 506.
- 4-Amido-1-hydroxy-2-naphthoic acid** (NIETZKI and GUTTERMANN), 1887, A., 732; (SCHMITT and BURKARD), 1888, A., 59.
- di*Amidohydroxynaphthylphenyl derivatives (MELDOLA and MORGAN), 1889, T., 124, 125.
- Amidohydroxyoxindole chloride** (JACKSON and BENTLEY), 1892, A., 1219.
- tetraAmidohydroxypentene** (NIETZKI and ROSEMAN), 1889, A., 770.
- di*Amido-4-hydroxy-2-phenyl-6-methyl-*m*-diazine (PINNER), 1887, A., 1051.
- p*-Amido-3-hydroxy-2'-phenylquinoline (WEIDEL and v. GEORGEVICH), 1888, A., 967.
- di*Amidohydroxyphenyltolyl (WEINBERG), 1888, A., 285.
- 4:4'-*di*Amido-3-hydroxyphenyltolylsulphonic acid** (WEINBERG), 1888, A., 285.
- Amidohydroxypropylbenzoic acid**, action of nitrous acid, and of ethylic chloroformate on (WIDMAN), 1884, A., 1022.
- o*-Amido-*p*-hydroxyisopropylbenzoic acid (WIDMAN), 1886, A., 466.
- m*-Amido-*p*-hydroxyisopropylbenzoic acid (WIDMAN), 1884, A., 317.

- Amido-*ero*-hydroxyisopropylbenzoic acid**, action of acetic anhydride on (WIDMAN), 1884, A., 302.
- Amidohydroxypyridine** and its derivatives (KRIEPPENDORFF), 1885, A., 1243.
- 1-Amido-3-hydroxyquinoline** (MATHEUS), 1888, A., 852; (ALTSCHUL), 1888, A., 1108.
- Amido-2'-hydroxyquinoline**. See Amidocarbostyryl.
- 3'-Amidohydroxyquinoline** and the action of its diazo-salts on phenols and tertiary bases (RIEMERSCHMIED), 1883, A., 1148.
- Amidohydroxythymoquinoneimide** (ANSCHUTZ and LEATHER), 1886, T., 725.
- Amido-*o*- and *m*-hydroxytoluic acid** (NIETZKI and RUPPERT), 1891, A., 308.
- di*Amidodiimidobenzene** nitrate (NIETZKI), 1887, A., 930.
- Amidoindazine** (WITT, NÖLTING, and GRANDMOUGIN), 1891, A., 312.
- Amidoisethionic acid**. See Taurine.
- Amidolepidine**. See Amido-4'-methylquinoline.
- di*Amidomalonamide** (CONRAD and BRÜCKNER), 1892, A., 40.
- Amidomercaptan** (GABRIEL), 1889, A., 870.
hydrochloride (GABRIEL), 1891, A., 815.
- Amidomesitylene**. See Mesidine.
- Amidomethamidoperchloromethylcyanidine** (WEDDIGE), 1886, A., 324.
- m*-Amido-*o*-methoxycinnamic acid** (SCHNELL), 1887, A., 140.
- 2-Amido-3-methoxy-2'-phenylhydroquinoline** (v. MILLER and KINKELIN), 1887, A., 978.
- m*-Amido-*p*-methoxytoluene** (LIMPACH), 1889, A., 499.
- di*Amidomethoxytriphenylmethane** (MAZZARA and POSSETTO), 1885, A., 1141.
- Amidomethylanthranol** and its acetyl derivative (ROEMER), 1883, A., 1137.
- Amidomethylanthraquinone** (ROEMER; ROEMER and LINK), 1883, A., 1137, 1138.
- Amidomethylcarbostyryl** (FEER and KOENIG), 1885, A., 1235.
- 4-Amido-5-methyl-2:6-diethyl-*m*-diazine** (v. MEYER), 1889, A., 577; (SCHWARZE), 1890, A., 1159.
- Amidomethylidihydroanthracene** (ROEMER), 1883, A., 1137.
- m*-*di*Amido-*p*-methyl-ethylbenzene** (ERRERA and BALDRACCO), 1892, A., 606.
- Amido-*p*-methylhexadecylbenzene** (KRAFFT and GÜTTIG), 1891, A., 130.
- Amidomethylethyl-*iso*-oxazole** (HANNOT), 1892, A., 79.
- Amidomethylethylisopropyl-*m*-diazine** (v. MEYER), 1889, A., 578.
- Amido-2'-methylindole** (WAGNER), 1888, A., 284.
- Amidomethylnaphthaquinoxaline** (WITT), 1886, T., 400.
- o*-Amido-2'-methyloctohydro- β -naphthaquinoline** (BAMBERGER and STRASSER), 1891, A., 1514.
- 4-Amido-1-methylquinoline** [m.p. 143°] (NÖLTING and TRAUTMANN), 1891, A., 327; 1892, A., 728.
- Amido-3-methylquinoline** [m.p. 132°] (FOURNEAUX), 1885, A., 400.
- 1-Amido-3-methylquinoline** [m.p. 62°] (NÖLTING and TRAUTMANN), 1891, A., 327; 1892, A., 728.
- 4-Amido-3-methylquinoline** [m.p. 145°] (NÖLTING and TRAUTMANN), 1891, A., 325; 1892, A., 727.
- 2-Amido-2'-methylquinoline** (GERDEISEN), 1889, A., 520.
derivatives of (DOEBNER and MILLER), 1884, A., 1373.
- 3'-Amido- and *di*-amido-2'-methylquinoline** (CONRAD and LIMPACH), 1888, A., 1111.
- 2'-Amido-4'-methylquinoline** (KLOTZ), 1888, A., 1113; (EPHRAIM), 1892, A., 1488.
- 3-Amido-4'-methylquinoline** (BUSCH and KOENIGS), 1890, A., 1437.
- Amidomethylselenazole** (HOFMANN), 1889, A., 726.
- 3-Amido-1-methyltetrahydroquinoline** (BAMBERGER and WULZ), 1891, A., 1254.
- 1-Amido-3-methyltetrahydroquinoline** (BAMBERGER and WULZ), 1891, A., 1255.
- meso*Amidomethylthiazole**. See Thiocyanopropinine.
- o*-Amidomethyl-*p*-toluidine**. See Methyltolylenediamine.
- Amido- β -methylumbelliferone** (v. PUCHMANN and COHEN), 1884, A., 1332.
- Amidomethyluracil** (BEHREND), 1886, A., 338.
- Amidomyristic acid** (HELL and TWERDOMEDOFF), 1889, A., 956.
- Amidonaphthalene**. See Naphthylamine.
- di*Amidonaphthalene**. See Naphthylenediamine.
- Amidonaphthalenesulphonic acids**. See Naphthylaminesulphonic acids.
- Amido- β -naphthaphenanthrazine** (LOEW), 1890, A., 1424.

- Amidonaphthaphenazine** (ZAERTLING), 1890, A., 509.
- α -Amido- α -naphthaphenazine** (FISCHER and HEPP), 1890, A., 801; (KEHRMANN), 1890, A., 1266.
- Amido- β -naphthaquinol** and its hydrochloride (GROVES), 1884, T., 300.
- Amidonaphthaquinone** (MEERSON), 1888, A., 1200.
- Amidonaphthaquinoneimide** (KRONFELD), 1884, A., 1037.
- di*Amidonaphtharesorcinol hydrochloride** (KEHRMANN and WEICHARDT), 1889, A., 1198.
- Amidonaphthastyril** (EKSTRAND), 1887, A., 378.
- Amido- α -naphthoic acid derivatives** (EKSTRAND), 1889, A., 152.
- Amido- β -naphthoic acid** (EKSTRAND), 1891, A., 932.
- di*Amido- β -naphthoic acids** (EKSTRAND), 1891, A., 78, 79.
- Amido- α -naphthol [2:1]** (GRANDMOUGIN and MICHEL), 1892, A., 861.
- Amido- α -naphthol [1:4]** (GRANDMOUGIN and MICHEL), 1892, A., 861.
- sulphonic acid from (SEIDEL), 1892, A., 721.**
- di*Amido- α -naphthol**, action of bromine on (ZINCKE and GERLAND), 1887, A., 838; (ZINCKE), 1888, A., 290.
- derivatives of (MEERSON), 1888, A., 713.**
- Amido- β -naphthol [1:2]** (GRANDMOUGIN and MICHEL), 1892, A., 862.
- identification of (MELDOLA and MORGAN), 1889, T., 120.**
- Amido- β -naphthol [1:2] and its hydrochloride**, preparation of, from nitroso- β -naphthol (GROVES), 1884, T., 293.
- Amido- β -naphthol [1':2 and 4':2]** (FRIEDLANDER and SZYMANSKI), 1892, A., 1233.
- di*Amido- β -naphthol hydrochloride** (LOEWE), 1890, A., 1424.
- Amido- β -naphthol sulphate** (GROVES), 1884, T., 297.
- Amido- α -naphthol-3:1'-disulphonic acid** (BERNTSEN), 1891, A., 215.
- Amido- β -naphthol -1':3' and -3:3'-disulphonic acids** (WITT), 1889, A., 273.
- α -Amido- α -naphtholsulphonic acid [4:1:2]** (SEIDEL), 1892, A., 721.
- β -Amido- α - and α -Amido- β -naphtholsulphonic acids** (SCHMIDT), 1892, A., 476.
- α -Amido- β -naphthol- α -sulphonic acid [1:2:1'], [α -acid] (WITT), 1889, A., 271.**
- Amido- β -naphthol- β -sulphonic acid [1:2:3'], [β -acid] (WITT), 1889, A., 272.**
- Amido- β -naphthol- α -sulphonic acid, [1:2:4'], [γ -acid] (WITT), 1889, A., 272.**
- Amido- β -naphthol- β -sulphonic acid, [1:2:2'], [β -acid] (WITT), 1889, A., 272.**
- di*Amido- β -naphthol- α -sulphonic acid** (NIEZKIA and ZUBBLIN), 1889, A., 515.
- Amido- α - and - β -naphtholsulphonic acids [4:1:2 and 2:1:4'] (REVERDIN and DE LA HARPE), 1892, A., 996.**
- Amido- α - and - β -naphthyl mercaptans** (HOFMANN), 1887, A., 839.
- m*-Amido-*p*- α -naphthylamidobenzoic acid** (HEIDENSELEBEN), 1891, A., 307.
- Amido- β -naphthylamine hydrochlorides** (LOEWE), 1890, A., 1424.
- Amido- β -naphthylphenylamine.** See Phenyl-naphthylenediamine.
- di*Amido- β -naphthylphenylamine** (ERNST), 1891, A., 301.
- Amidonaphthylphenylcarbamide** (GOLDSCHMIDT and ROSEIL), 1890, A., 616.
- Amidonitro.** See Nitramido.
- Amidonononaphthene** (KONOWALOFF), 1892, A., 443.
- ar-p*-Amido-octohydro- α -naphthaquinoline** (BAMBERGER and STETTENHEIMER), 1891, A., 1261.
- o*-Amido-octylbenzene hydrochloride** (AHRENS), 1887, A., 134.
- p*-Amido-octylbenzene and its derivatives** (BERAN), 1885, A., 523.
- Amido-octyltoluene and its derivatives** (BERAN), 1885, A., 523.
- Amido-opianylphenylhydrazide** (LIEBERMANN), 1887, A., 45.
- Amido-oxalacetic acid phenylhydrazone** (TAFEL), 1887, A., 467.
- Amido-oxalamidobenzoic acid.** See Amidocarboxyphenyloxamic acid.
- o*-Amido-oxalyl- α -naphthyl mercaptan** (LANG), 1892, A., 1079.
- di*Amido-oxalyl- α - and - β -naphthyl mercaptans** (V. HOFMANN), 1887, A., 840.
- o*-Amido-oxalylphenyl mercaptan** (LANG), 1892, A., 1079.
- Amidoisooxazole** (HANNOT), 1891, A., 1108.
- "Amido-oxyquinizinecarboxylic acid"** (TAFEL), 1887, A., 468.
- Amido-2'-oxyquinoline.** See Amidocarbostyril.
- α -Amidopalmitic acid** (HELL and IORDANOFF), 1891, A., 820.
- Amidoparalidine** (CURTIUS and JAY), 1890, A., 735.
- Amidoperezone** (ANSCHUTZ and LEATHER), 1886, T., 720.
- Amidophenaceturic acid** (HOTTER), 1888, A., 1299.

- p*-Amido- and *di*amido-phenanthraquinol hydrochlorides (ANSCHÜTZ and MEYER), 1885, A., 1068.
- α-di*Amidophenanthraquinol and its derivatives (KLEEMANN and WENSE), 1885, A., 1240.
- α-di*Amidophenanthraquinone (KLEEMANN and WENSE), 1885, A., 1240.
- Amidophenazine (BARBIER and VIGNON), 1888, A., 688; (FISCHER and HEPP), 1889, A., 500.
- 1:4-*di*Amidophenazine (FISCHER and HEPP), 1889, A., 500.
- 2:2'-*di*Amidophenazine (NIETZKI and ERNST), 1890, A., 1114.
- m*-Amido-2-phenethylpiperidine (SCHULTAN), 1890, A., 1438.
- o*-Amidophenetol, action of chloroacetic acid on (VATER), 1884, A., 1144.
- action of cyanogen chloride on (BERLINERBLAU), 1885, A., 147.
- m*-Amidophenetol and its derivatives (WAGNER), 1885, A., 1212.
- hydrobromide (STAEDEL), 1883, A., 578.
- p*-Amidophenetol, action of cyanogen chloride on (BERLINERBLAU), 1885, A., 147.
- oxidation products of (KINZEL), 1892, A., 158.
- tetra*Amidophenetol hydrochloride (KÜHLER), 1884, A., 1161.
- Amidophenetoltrimethylammonium iodide (SEIDEL), 1891, A., 53.
- Amidophenols. See Phenol.
- Amidophenolsulphonic acids and their relationship to Liebermann's colouring matters (BRUNNER and KRAMER), 1884, A., 1354.
- action of bleaching powder on (HIRSCH), 1887, A., 834.
- Amidophenophenanthrazine (HEIM), 1888, A., 1097.
- Amidophenyl amidotolyl ketone (LIEBERMANN), 1888, A., 1097.
- Amidophenyl ethyl ether, *mono*-, *di*-, and *tri*- (LINDNER), 1885, A., 775.
- Amidophenyl ethylene ethers, *o*-, *m*-, and *p*-, preparation, properties and salts of (WAGNER), 1884, A., 433.
- o*-Amidophenyl mercaptan and its derivatives (v. HOFMANN), 1887, A., 823, 1039.
- formation of anhydro-compounds of, from thioanilides (JACOBSON), 1886, A., 700.
- Amidophenylacetamide (PURGOTTI), 1891, A., 562.
- Amidophenylacetic anhydride (KONSEL), 1892, A., 468.
- m*-Amidophenylacetoneitrile (FRIEDLÄNDER), 1884, A., 737; (SALKOWSKI), 1884, A., 1176.
- p*-Amidophenylacetoneitrile and its salts (FRIEDLÄNDER and MAILLY), 1883, A., 919; (FRIEDLÄNDER), 1884, A., 737.
- Amidophenylacridine. See Anilido-acridine.
- di*Amidophenylacridine. See Chrysaniline.
- m*-Amidophenyl*di-p*-amidotolylmethane (BISCHLER), 1889, A., 133.
- Amidophenylazimidobenzene (WILLGERODT), 1892, A., 1322.
- Amidophenylbenzoglycocynamine and its hydrochlorides (GRIESS), 1883, A., 669.
- o*-Amidophenylbenzylhydrazine (PAAL and BODEWIG), 1892, A., 1455.
- Amidophenylbiazalone (FREUND and KUH), 1890, A., 1441.
- Amidophenylbismethyltetrahydroquinoxylmethane (v. MILLER and PLÜCHL), 1891, A., 1102.
- Amidophenylcarbizinecarboxylic acid (FREUND and KUH), 1890, A., 1441.
- m*-Amidophenylcrotonaldehyde (v. MILLER and KINKELIN), 1886, A., 701.
- 6-Amido-5-phenyl-2:4-dibenzyl-*m*-diazine (WACHE), 1889, A., 684.
- Amidophenylencarbamide (JENTZSCH), 1889, A., 46.
- o*-Amidophenylethylhydrazine (HEMPPEL), 1890, A., 612.
- α-p*-Amidophenylfurfuracrylonitrile (FREUND and IMMERWAHR), 1890, A., 1408.
- o*-Amidophenylglyoxylic acid. See Isatic acid.
- o*-Amidophenylglyoxylic lactim. See Isatin.
- o*-Amidophenylhydrazine (BISCHLER), 1889, A., 501.
- m*-Amidophenylhydrazine and its hydrochloride (GRIESS), 1885, A., 789.
- 5-Amidophenylhydrazine-*o*-sulphonic acid (LIMPRICHT), 1885, A., 1216.
- o*-Amidophenylhydrazine-*p*-sulphonic acid (NIETZKI and LERCH), 1889, A., 144; (LERCH), 1889, A., 881.
- m*-Amidophenylhydroquinoline (v. MILLER and KINKELIN), 1885, A., 1145.
- o*-Amidophenyl diphenylcarbamate (LELLMANN and BONHÖFFER), 1887, A., 936.
- Amidophenyl diphenylcarbamates (LELLMANN and BENZ), 1891, A., 1215.
- o*-Amidophenyl disulphide (v. HOFMANN), 1887, A., 823.

- p*-Amidophenyl ethylxanthate (LEUCKART), 1890, A., 604.
- o*-Amidophenyl methyl sulphide (V. Hofmann), 1887, A., 823.
- Amidophenyl phenylmethylcarbamates (LELLMANN and BIEZ), 1891, A., 1215.
- di*Amidophenyl thiocyanate (AUSTEN), 1889, A., 700.
- Amido-2'-phenylindole (FISCHER and SCHMIDT), 1888, A., 698.
- Amidophenylinduline (FISCHER and HEPP), 1891, A., 1046.
- action of sulphuric acid on (FISCHER and HEPP), 1892, A., 311.
- p*-Amidophenylactic acid (ERLENMEYER and LIPP), 1888, A., 994.
- m*-Amidophenyllutidine (LEPETIT), 1887, A., 1053.
- m*-Amidophenyllutidinedicarboxylic acid (LEPETIT), 1887, A., 1053.
- Amido- and diamido-2-phenyl-6-methyl-*m*-diazine (PINNER), 1887, A., 1054.
- o*-Amidophenylmethylhydrazine (HEMPEL), 1890, A., 613.
- m*-Amido-2'-phenyl-3'-methylhydroquinoline (V. MILLER and KINKELIN), 1886, A., 561.
- m*-*di*Amido-*p*-phenyl- α -methylpropionic acid (ERRERA and BALDRACCO), 1892, A., 606.
- Amidophenyl-2-methylquinoline (SCHIFF and VANNT), 1890, A., 1298.
- m*-Amido-2'-phenyl-3'-methylquinoline (V. MILLER and KINKELIN), 1886, A., 560, 561.
- p*-Amido-2'-phenyl-2-methylquinoline (*ψ -flavaniline*) (WEIDEL and BAMBERGER), 1888, A., 966.
- 4-Amido-2'-phenyl-3'-methylquinoline. See Flavaniline.
- Amidophenylmercaptomethyl mercaptan (JACOBSON and FRANKENBACHER), 1891, A., 1048.
- di*Amidophenyl- β -naphthol (ERNST), 1891, A., 301.
- Amido-*n*-phenylsotriazolecarboxylic acid (BALTZER and V. PECHMANN), 1891, A., 1117.
- 1-Amidophenylpiperidine (LELLMANN and JUST), 1891, A., 1245.
- 3-Amidophenylpiperidine, formation of dyes from (LELLMANN and GELLER), 1888, A., 1108.
- o*-Amidophenylpropionic acid and its derivatives (V. BAEYER and BLOEM), 1883, A., 196.
- di*Amidophenylpropionic acid (GABRIEL), 1883, A., 195.
- o*-Amido- α -phenylpropionic anhydride. See Atloxindole.
- α -Amidophenylpropionitrile (ERLENMEYER and LIPP), 1883, A., 992.
- Amidophenylquinoline [m.p. 136° 5'] (JELLINEK), 1886, A., 1045.
- Amido-8-phenylquinoline (WEIDEL and V. GEORGIEVICS), 1888, A., 967.
- 2-Amido-2'-phenylquinoline (V. MILLER and KINKELIN), 1885, A., 1144.
- Amidophenylisoquinoline (GABRIEL), 1886, A., 631.
- Amidophenylrosinduline (FISCHER and HEPP), 1890, A., 765.
- Amidophenyltetrazolecarboxylic acid (BLADIN), 1892, A., 1009.
- tri*Amidophenyltoluidine (ERNST), 1891, A., 300.
- o*-Amidophenyl-*p*-[*p*]-tolylamine (HINDENBERG), 1891, A., 307.
- p*-Amidophenyl-*p*-tolylamine. See Tolyphenylenediamine.
- di*Amidophenyltolylmethanes (ULMANN), 1888, A., 288.
- Amidophenyltriazolecarboxylic acid (BLADIN), 1892, A., 735.
- o*-Amidophenyltrimethylmethane (SENKOWSKI), 1890, A., 1296.
- p*-Amidophenyltrimethylmethane (SENKOWSKI), 1890, A., 1296; 1892, A., 44.
- p*-Amidophenylurethane and its derivatives (HAGER), 1885, A., 149.
- o*-Amidophenylvaleric acid, derivatives of (DIEHL and EINHORN), 1887, A., 485.
- Amidophthalamide (PELLIZZARI), 1886, A., 1025.
- Amidophthalic acid, salts of (LANDSBERG), 1883, A., 476.
- as*-Amidophthalic acid (LOEWENHERZ), 1892, A., 1464.
- di*Amidophthalic acid (CLAUS and WYNDHAM), 1889, A., 143.
- Amidophthalide [m.p. 167°] (RACINE), 1887, A., 951.
- [m.p. 178°] (HÖNIG), 1886, A., 212.
- Amidopiaselenole (HINDBERG), 1890, A., 161.
- o*-Amidopiperonaloxime (HABER), 1891, A., 706.
- Amidopiperonylacrylic acid (FERKIN), 1891, T., 158.
- 7-Amidopropanesulphonic acid (LAUER), 1890, A., 1090.
- 2:4:1-Amidopropenylbenzoic acid (WIDMAN), 1886, A., 466.
- 3:4:1-Amidopropenylbenzoic acid and its derivatives (WIDMAN), 1884, A., 317.
- action of nitrous acid on (WIDMAN), 1884, A., 1022.

- Amidopropionic acid.** See Alanine.
- Amidopropiophenone hydrochloride** (SCHMIDT), 1890, A., 372.
- o*-Amido- μ -propyloinnamic acid** (WIDMAN), 1886, A., 464.
- Amidopropylene** (HIRSCH), 1890, A., 860.
- Amidoisopropylic alcohol.** See Hydroxypropylamine.
- γ -Amidopropylic benzoate** (GABRIEL and ELFELDT), 1892, A., 213.
- β -Amidopropylic benzoate hydrobromide** (GABRIEL and HAYMANN), 1890, A., 1268.
- γ -Amidopropylic hydrogen sulphate** (GABRIEL and LAUER), 1890, A., 473.
- Amidoisopropylindene** (v. MILLER and ROHDE), 1889, A., 984.
- γ -Amidopropyl hydrogen sulphate** (LAUER), 1890, A., 1090.
- Amidopurpurin** (BRASCH), 1891, A., 1078.
- di*Amidopyrene** (JAHODA), 1888, A., 161.
- Amidopyridine 3·4-dicarboxylic acid** (GOLDSCHMIEDT and STRACHE), 1889, A., 1016.
- di*Amidoquinol** (NIETZKI and SCHMIDT), 1889, A., 968.
- hydrochloride, and its derivatives (NIETZKI and PREUSSER), 1886, A., 1024.
- diethyl ether (NIETZKI and RECHENBERG), 1890, A., 967.
- tri*Amidoquinol sulphate** (NIETZKI and SCHMIDT), 1889, A., 968.
- 2-Amidoquinoline** (FREYDL), 1888, A., 296.
- 4-Amidoquinoline** (DUFTON), 1892, T., 785.
- 2'-Amidoquinoline**, preparation of (EPHRAIM), 1891, A., 1509.
- 3'-Amidoquinoline** (RIEMERSHUIJED), 1883, A., 1148.
- 4'-Amidoquinoline** (HOOGEWILF and VAN DORP), 1892, A., 725.
- di*Amidoquinolines, α - and β -** (CLAUS and KRAMER), 1885, A., 908.
- Amidoquinones** (KLIRMANN), 1890, A., 756, 1265.
- Amidoquinoneimide** (MELDOLA), 1881, T., 161.
- μ -Amidoquinoxaline and its salts** (HINSBERG), 1886, A., 722.
- Amidoresorcinol** (FEYER), 1883, A., 733.
- di*Amidoresorcinol hydrochloride** (TYPKE), 1883, A., 917.
- Amidoresorcinoldisulphonic acid** (ULZER), 1889, A., 510.
- Amidoresorcinolsulphonic acid, α - and ν -** (BRUNNER and KRAEMER), 1884, A., 1354, 1355.
- μ -Amidoresorcinyl dimethyl ether**, and its derivatives (BECHHOLD), 1889, A., 1155.
- 1-Amidosalicilic acid**, action of aniline on (LIMPRICH and v. RECHENBERG), 1890, A., 158.
- 5-Amidosalicilic acid**, action of benzoic chloride on (DABNEY), 1884, A., 308.
- Amidostearic acid** [m. p. 63°] (GAUTIER and ERARD), 1884, A., 89.
- α -Amidostearic acid** [m. p. 221°] (HELL and SADOWSKY), 1891, A., 1336.
- o*-*di*Amidostilbene**, azo-dyes from (BISCHOFF), 1883, A., 1091.
- μ -*di*Amidostilbene** (BENDER and SCHULTZ), 1887, A., 268.
- di*Amidostilbene sulphide** (ANSCHUTZ and SCHULTZ), 1889, A., 602.
- di*Amidostilbenesulphonic acid** (BENDER and SCHULTZ), 1887, A., 268.
- Amidostyrychne** (LOEBACH and SCHOOF), 1886, A., 268.
- di*Amidostyrychne** (HANNOT), 1883, A., 670.
- μ -Amidostyrene** (BERNTSEN and BENDER), 1883, A., 70.
- m*-Amidostyryl methyl ketone** (v. MILLER and ROHDE), 1890, A., 1138.
- o*-Amidostyrylacrylic acid** (DIEHL and EINHORN), 1885, A., 1222, 1223.
- o*-Amidostyrylpropionic acid** (DIEHL and EINHORN), 1887, A., 485.
- m*-Amido-2-styrylpyridine** (SCHUFTAN), 1890, A., 1438.
- Amidosuccinic acid.** See Aspartic acid.
- di*Amidosuccinic acid** (CLAUS), 1883, A., 43.
- Amidosulphime dithiocarbamidophinites** (TIEMANN), 1891, A., 557.
- μ -Amido-*o*-sulphobenzoic acid** (HEDRICK), 1888, A., 280.
- μ -Amido-*m*-sulphobenzoic acid** (FISCHER), 1892, A., 332.
- Amidosulphonic acids** (PELLIZZARI and MURRICCI), 1883, A., 1302; (KRAFFT and BOURGEOIS), 1892, A., 700.
- action of aldehydes on (CHANN and LANGR), 1887, A., 962.
- Amidosulphonic acids, aromatic**, acetyl derivatives of (NIETZKI and BENCKISER), 1884, A., 1021.
- Amidoterebenthene** (PESCI and BETTELLI), 1887, A., 272; (PESCI), 1891, A., 1086.
- μ -Amidotetrahydro- α -naphthaquinoline** (BAMBERGER and STEFFENHEIMER), 1891, A., 1259.
- di*Amidotetrahydronaphthylthiocarbamide** (BAMBERGER and BAMMANN), 1889, A., 783.

p-Amidotetrahydroquinoline (ZIEGLER), 1888, A., 609.

Amidotetrahydroxybenzene hydrochloride (NIETZKI and SCHMIDT), 1889, A., 969.

*di*Amidotetrahydroxybenzene, and its derivatives (NIETZKI and BENCKISER), 1885, A., 780.

Amidotetramethylbenzene (*isoduridine*, *tetramethylamidobenzene*) (NÖLTING and BAUMANN), 1885, A., 384, 893.

*m-di*Amidotetramethylbenzidine (LAUTH), 1892, A., 1222.

Amidotetrazotic acid (THIELE), 1892, A., 1299.

Amidotetraphenylamidotriphenylmethane (FISCHER and SCHMIDT), 1884, A., 1316.

μ -Amidothiazole- α -carboxylic acid (STEINDE), 1891, A., 743.

μ -Amidothiazoledicarboxylic acid (LUBLEFF), 1891, A., 224.

Amidothiazoles, and their isomerides (TRAUMANN), 1889, A., 414.
from thiocarbamide and halogenated ketones and aldehydes (HANTZSCH and TRAUMANN), 1888, A., 573.

μ -Amido- α -thiazylacetic acid (STEINDE), 1891, A., 743.

Amidothierylacetic acid (BRADLEY), 1886, A., 1014.

o-Amidothiobenzamide derivatives (STEWART), 1892, A., 54.

Amido-*m*- and -*p*-thiocyanocinnamic acids (ROTHSCHILD), 1890, A., 1123; 1891, A., 199.

Amidodiphenylamine (BERNTSEN), 1885, A., 259; 1886, A., 53.

*di*Amidodiphenylamine (BERNTSEN), 1885, A., 259; 1886, A., 53.

*di*Amidodiphenylmethylamine and its derivatives (BERNTSEN), 1885, A., 259.

Amidionaphthol (CLEVE), 1889, A., 155; (EKEDOM), 1890, A., 995.

Amidothiophen hydrochloride, and its derivatives (STADLER), 1885, A., 1204.

*di*Amidothymoquinone (ANSCHÜTZ and LEATHER), 1886, T., 725.

*di*Amidotolazinedicarboxylic acid (KEHRMANN), 1889, A., 1154.

m-Amido-*o*-tolidine (LOEWENHERZ), 1892, A., 852.

3:4-*di*Amidotoluene. See Toluene-*o*-diamine.

*c-tetra*Amidotoluene, and its sulphate (NIETZKI and RÜSEL), 1891, A., 192.

*penta*Amidotoluene (PALMER), 1889, A., 390.

o-Amidotoluene-*p*-azodimethylaniline (WALLACH), 1887, A., 41.

p-Amidotoluene-*o*-azodimethylaniline (WALLACH), 1887, A., 41.

Amidotoluenesulphonic acids. See Toluidinesulphonic acid.

*di*Amidotoluenesulphonic acid (NIETZKI and POLLINI), 1890, A., 502.

β -Amido-*p*-toluic acid (NOYEN), 1889, A., 394.

γ -Amido-*o*-toluic acid, phosphate of (HÖNIG), 1886, A., 242.

ω -Amido-*m*-toluic acid (REINGLASS), 1891, A., 1345.

m-Amido-*p*-toluic acid (*m-homanthranilic acid*) (NIEMENTOWSKI), 1888, A., 837; 1889, A., 1065; (NIEMENTOWSKI and KOZAKSKI), 1888, A., 1088; (FILETI and UROSA), 1889, A., 495.

*di*Amido-*p*-toluic acids, 2:3-, 2:5-, and 3:5- (CLAUS and JOACHIM), 1892, A., 176.

o-Amido-*p*-toluonitrile (NIEMENTOWSKI), 1888, A., 837; (GLOCK), 1888, A., 1291.

o-Amido-*p*-toluoylamide (NIEMENTOWSKI), 1888, A., 837.

*di*Amido-*p*-tolyl ketone (LANGE and ZUFALL), 1892, A., 1460.

m-Amido-*o*-tolylacrylic acid (V. MILLER and ROLDE), 1890, A., 1140.

*m*Amido-*p*-(*o*) and -*p*-(*p*)-tolylamidobenzoic acid (HEIDENSLEBEN), 1891, A., 306.

Amido-*p*-tolylazimidobenzene (WILLGERODT), 1892, A., 1322.

m-Amidotolyl-*p*-azoacetoacetic acid (BAMBERGER), 1885, A., 158.

2-Amidotolyl-4-oxamic acid (SCHIFF and VANNI), 1890, A., 1125; 1891, A., 833; 1892, A., 599, 601, 1208.

2-Amidotolyl-4-oxamide and -oxanilide (SCHIFF and VANNI), 1891, A., 834; 1892, A., 602.

Amidotolylurethane (SCHIFF and VANNI), 1892, A., 600; (SCHIFF), 1892, A., 1203.

p-Amidotriazobenzene (GRIESS), 1888, A., 826.

m-Amidotriazobenzoic acid (GRIESS), 1888, A., 826.

6-Amido-2:4:6-triethyl-*m*-diazine (WACHE), 1889, A., 684.

Amidotriethylgallic acid (SCHIFFER), 1892, A., 716.

Amidotriethylpyrogallol (SCHIFFER), 1892, A., 716.

Amidotrihydroxynaphthalene (KEHRMANN), 1888, A., 940.

Amidotrimethylbutyllactic acid (WELL), 1886, A., 1009.

Amidotrimethyluracil (HAGEN), 1888, A., 582.

- Amido- and triamido-triphenylamine** (HEYDRICH), 1885, A., 1213; (HERZ), 1890, A., 1409.
- tri***Amidotriphenylarsine** (PHILIPS), 1886, A., 618.
- tetra***Amidotriphenylbenzene** (MELIN), 1890, A., 1423.
- p*-**Amidotriphenylcarbinol** (v. BAEYER and LÖHR), 1890, A., 1141, 1142.
- tri***Amidotriphenylcarbinol**. See *p*-Ros-aniline.
- 6 - Amido - 2:4:5 - triphenyl - *m* - diazine** (WACHE), 1889, A., 684.
- Amidotriphenylethophenazonium hydroxide** (KEHRMANN and MESSINGER), 1892, A., 1109.
- o*-**Amidotriphenylmethane** (FISCHER and FRÄNKEL), 1888, A., 56.
- p*-**Amidotriphenylmethane** (v. BAEYER and LÖHR), 1890, A., 1141.
- di***Amidotriphenylmethane**, preparation of (MAZZARA), 1885, A., 904; (ULMANN), 1885, A., 1236.
- action of phenols on (MAZZARA), 1885, A., 500.
- action of potassium nitrite on (MAZZARA), 1885, A., 800, 904.
- tri***Amidotriphenylmethane**. See *p*-Leucaniline.
- Amidotriphenylphosphine oxide** (MICHAELIS and v. SODEN), 1884, A., 1180.
- Amidotriazolic acids** (HOMANS, STELTZNER and SUKOW), 1891, A., 1496.
- Amidouracilcarboxylic acid** (KÖHLER), 1887, A., 128; (BEHREND), 1887, A., 920.
- δ - Amidovaleraldehyde** (WOLFFENSTEIN), 1892, A., 1484.
- γ - Amidovaleric acid** (TAFEL), 1886, A., 1008; 1887, A., 463; 1889, A., 961.
- γ - Amidovaleric anhydride** (TAFEL), 1889, A., 961.
- δ - Amidovaleric acid** (SCHOTTEN), 1888, A., 1105.
- from the putrefaction of proteins (GABRIEL and ASCHIAN), 1891, A., 948.
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- β - Amidoisovaleric acid** (BREDT), 1883, A., 176.
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- Anhydro-*o*-amidophenol ethylic acetate**. See Ethylic propenyl-*o*-amidophenol- ω -carboxylate.
- Anhydro-*o*-amidophenyllic carbonate** (BENDER), 1887, A., 38, 245.
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- Anhydro-bases** (MELDOLA and STREETFIELD), 1887, T., 691.
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- Anhydroberberilic acid**, constitution and synthesis of (PERKIN), 1890, T., 994, 1037, 1061.
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- Anhydrocinnamaldehydeanisisidine** (v. MILLER and PLOCH), 1892, A., 1195.
- Anhydro-compounds** (BÖTTCHER), 1883, A., 800; (NIEMENTOWSKI), 1886, A., 544; 1887, A., 937.
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- Anhydrodiacetyl ethenylamidine** (PINNER), 1884, A., 723; 1889, A., 1004.
- Anhydrodiazohemipinic acid** (GRÜNE), 1887, A., 49.

- Anhydroadipic acid** and its derivatives (BOTTINGER), 1884, A., 319.
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- "Anhydroformyl-*o*-amido-*p*-toluylamide"** (NIEMENTOWSKI), 1889, A., 1065.
- Anhydrogeraniol** (SEMMLER), 1891, A., 655.
- Anhydrogluco-*o*-diamidobenzene** (GRIESS and HARROW), 1887, A., 930.
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- α -Anhydrophospholutedungstic acid** (KEHRMANN), 1887, A., 777.
- Anhydrosalicilic glucoside**, synthesis of (MICHAEL), 1883, A., 76.
- α -Anhydrosulphaminephthalic acid and its derivatives** (STOKES), 1885, A., 539; (MOULTON), 1891, A., 1063. potassium salt of (REMSEN and COMSTOCK), 1884, A., 320.
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- Anhydrotricarballic acid** (EMERY), 1891, A., 680; (AUWERK, KOBNER and v. MEYENBURG), 1892, A., 41.
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- Anilidoacetic acid** (*phenylglycocine*) (GABRIEL and BORGMANN), 1883, A., 1121. preparation of (HAUSDORFER), 1889, A., 1013. derivatives of (REBUFFAT), 1887, A., 1108; (BISCHOFF and HAUSDORFER), 1892, A., 1338.

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 α -Anilidoisobutyric acid (NASTVOGEL), 1890, A., 1159, 1160.
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 β -Anilidocrotonic acid, α -bromo- (KNORR and ANTRICK), 1885, A., 273.
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- 1-Anilidoketodihydroquinoline, *tri*-chloro- (ZINCKE), 1891, A., 1251.
- 4-Anilido-2:6-lutidine (CONRAD and EPSTEIN), 1887, A., 501.
- Anilidomaleic acid, anil and monanilide of (MICHAEL and PALMER), 1888, A., 461.
- Anilidomethylacridine (BESTHORN and CURTMAN), 1891, A., 1233.
- 6-Anilido-5-methyl-2:4-diethyl-*m*-diazine (v. MEYER), 1889, A., 685.
- Anilidomethylmaleic acid phenylimide (WISLIGENUS and SPIRO), 1890, A., 379.
- 2'-Anilido-4'-methylquinoline (*phenyl-lepidinamine*) (KNORR), 1887, A., 159.
- 4'-Anilido-2-methylquinoline (*phenyl-anidoguinidine*) (CONRAD and LIMPACH), 1887, A., 680.
- α -Anilidomethylsuccinic acid (α -anilidopyrotartaric acid), its derivatives and condensation-product (SCHILLER-WECHSLER), 1885, A., 900.
- β -Anilidomethylsuccinic acid (REISSERT), 1888, A., 694.
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- Anilidonaphthaquinone, *dichlor*- (HELLSTRÖM), 1889, A., 149.
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- α -Anilido- α -naphtholazine (EICKER), 1891, A., 471.
- β -Anilidonaphthoic acid and its anilide (SCHÖFF), 1892, A., 1476.
- 2'-Anilido- β -naphthol (CLAUSIUS), 1890, A., 629.
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- 3-Anilido- α - and β -naphthylthioiazolones (FREUND), 1892, A., 508.
- 3-Anilido- α -naphthylthioiazolone (FREUND), 1892, A., 508.
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- α -Anilidopalmitic acid (HELL and JORDANOFF), 1891, A., 821.
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- β -Anilidophenylacrylanilide (KNORR), 1888, A., 1112.
- Anilidophenylamidophenylinduline (FISCHER and HEPP), 1892, A., 342.
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- α -Anilidophenylcrotonic acid and its amide (PEINE), 1884, A., 1315.
- α -Anilidophenylcrotononitrile (PFINN), 1884, A., 1345; (v. MILLER and PLOCHL), 1892, A., 1194.
- 1-Anilido-5-phenyl-3-diphenylpyrrolidone (JAPP and KLINGEMANN), 1890, T., 683.
- α -Anilido- α -phenylpropionamide and α -anilido- α -phenylpropionitrile (JACOBY), 1886, A., 800.
- Anilidophthalaminic acid (HÖTTE), 1887, A., 669.
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- α -Anilidopropionamide (TIEMANN and STEPHAN), 1883, A., 199; (STEPHAN), 1887, A., 113.
- α -Anilidopropionic acid and its derivatives (TIEMANN and STEPHAN), 1883, A., 199; (ERLENMEYER and LIPP), 1883, A., 992; (STEPHAN), 1887, A., 143; (NARFVOGEL), 1889, A., 1012; 1890, A., 1159.
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- β -Anilidopropionic acid (*phenyl- β -alanine*) (BISCHOFF and MINTZ), 1892, A., 1342.
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- α -Anilidopropionitrile (TIEMANN and STEPHAN), 1883, A., 199; (ERLENMEYER and LIPP), 1883, A., 992; (STEPHAN), 1887, A., 142.
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- α -Anilidostearic acid** (HELL and SADOWSKY), 1891, A., 1336.
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- Anilidotetraphenylpyrroline** (KLINGEMANN), 1892, A., 995.
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- Anilidotoluquinone, nitr-** (LEICESTER), 1890, A., 1446.
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- Anilido-*m*-tolylacetic acid** (BORNE-MANN), 1884, A., 1162.
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- o*-Anilidotolylcarbamide** (LEUCKART), 1890, A., 760.
- Anilidotricarballylic acid** (EMERY), 1891, A., 680.
- 4'-Anilido-1:3:2'-trimethylquinoline** (CONRAD and LIMPACH), 1888, A., 503.
- α -Anilidoisovaleramide** (v. MILLER and FLÖCHL), 1892, A., 1192.
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- Augites** of noteworthy composition (DOMTER), 1885, A., 735.
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- Aurichalcite** (*burutite*) (JANNETTAZ), 1887, A., 644; (DELLAR), 1890, A., 218; (PENFIELD), 1891, A., 886.
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- Azo-compounds, nitroso-**, constitution of (WILLGERODT), 1892, A., 1453.
- Acetamidobenzeneazoacetanilide** (MIXTER), 1884, A., 301.
- Acetamidobenzeneazoaniline** (NITZKI), 1884, A., 1016.
- Acetamidobenzene-m-azodimethylaniline** (WALLACH), 1887, A., 41.
- Acetamidobenzene-m-diazopiperidide** (WALLACH), 1887, A., 131.
- Acetamidobisazobenzene** (NITZKI and DIESTERWEG), 1888, A., 1082.
- p-Acetamidotoluene-o-azodiethylaniline** (WALLACH), 1887, A., 41.
- 4:3:1-Acetazimidotoluene** (BOSSNECK), 1886, A., 874.
- Acetoneazobenzene**. See Pyruvaldehydephenylhydrazine.
- Acetonebisazobenzene** (CLAISEN), 1892, A., 710.
- Acetophenoneazonaphthol** (KLINGEL), 1886, A., 61.

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- Aceto-p-toluidide-o-diazodiethylamide** (WALLACH), 1887, A., 137.
- Aceto-p-toluidide-n-diazonitroethane** (WALLACH), 1887, A., 137.
- Aceto-p-toluidide-n-diazopiperidide** (WALLACH), 1887, A., 138.
- Acetylbenzeneazo-p-cresol** (GOLDSCHMIDT and BRUBACHER), 1891, A., 1209.
- Acetylbenzeneazo- ψ -cumaldehyde** (GOLDSCHMIDT and BRUBACHER), 1891, A., 1209.
- Acetyl-m-chlorobenzene-p-azo-p-cresol** (GOLDSCHMIDT and POLLAK), 1892, A., 975.
- Acetyl-p-chlorobenzeneazo-p-cresol** (GOLDSCHMIDT and POLLAK), 1892, A., 974.
- Acetyl- ψ -cumeneazophenol** (GOLDSCHMIDT and BRUBACHER), 1891, A., 1210.
- Acetylenedicarboxylodiazooacetic acid** (BUCHNER), 1889, A., 694.
- Acetyl-o-nitrohydroxyazobenzene** (GOLDSCHMIDT and BRUBACHER), 1891, A., 1211.
- Acetylphenolbisazotoluene**, 1:2:1- (GOLDSCHMIDT and POLLAK), 1892, A., 976.
- Acetylphenylazoacetone** (GOLDSCHMIDT and POLLAK), 1892, A., 977.
- Acetyl-p-tolueneazo-p-cresol** (GOLDSCHMIDT and POLLAK), 1892, A., 974.
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- Alkyldiazoamido-compounds**, synthesis of heterogeneous mixed (MELDOLA), 1889, T., 610; P., 127.
- Anhydrosazohemipinic acid** (GRUNE), 1887, A., 49.
- Anilidobenzeneazobenzene polysulphonic acids**, preparation of (ANON.), 1884, A., 237.
- Anisenzylazoximebenzenyl** (MILLER), 1890, A., 115.
- Anisenzylazoximecarbonyl** (MILLER), 1890, A., 145.
- Anisenzylazoximeethenyl** (MILLER), 1890, A., 145; (HOCHHEIM), 1890, A., 1265.

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- Anisenzylazoximepropenyl- α -carboxylic acid** (MILLER), 1890, A., 115; (HOCHHEIM), 1890, A., 1265.
- Azimides and ψ -Azimides** (ZINCKE and CAMPBELL), 1890, A., 787.
- Azimidobenzene** (GRIESS), 1883, A., 184.
- Azimidobenzene**, brom- and trichlorobrom- (ZINCKE and ARZBERGER), 1889, A., 501.
- Azimidobenzoic acid** (GRIESS), 1883, A., 57.
- Azimidodibromodiamidodiphenyl** (SCHULTZ), 1884, A., 903.
- Azimido-compounds** (ZINCKE and ARZBERGER), 1889, A., 501; (ZINCKE and CAMPBELL), 1890, A., 787.
- constitution of (GRIESS), 1883, A., 56; (NÖLTING and AHT), 1888, A., 278.
- formula of (ZINCKE), 1890, A., 990.
- Azimidophenyl- α -naphthylamine**, nitr- (HEIM), 1888, A., 1097.
- Azimidophenyl- β -naphthylamine**, nitr- (HEIM), 1888, A., 488.
- Azimidotoluene** (NÖLTING and AHT), 1888, A., 274.
- 2:3-Azimido- p -toluic acid** (CLAUS and BEYSEN), 1892, A., 177.
- Azimido- p -[p]-Ictuidobenzoic acid** (HEIDENLEBEN), 1891, A., 306.
- Azimidouramidobenzoic acid** (GRIESS), 1883, A., 57.
- Azoacetanilide** (MITTER), 1884, A., 301.
- Azoacetaceticbenzoic acid** (GRIESS), 1885, A., 788.
- Azoamidobenzene**, *m*-nitr-. See Benzeneazobenzene, *m*-nitro.
- Azoamidobenzene-sulphonic acids**. See Benzeneazobenzene-sulphonic acids.
- Azoamidonaphthalenebenzenesulphonic acids**. See Sulphobenzeneazobenzene-sulphonic acids.
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- Azobenzene**, spectrum of (HARTLEY), 1887, T., 176.
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- m*-brom- (JANOVSKY and ERB), 1886, A., 1024; 1887, A., 478.
- p*-brom- (JANOVSKY and ERB), 1887, A., 478; (JANOVSKY), 1887, A., 663; (NÖLTING and WERNER), 1891, A., 211.
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- bromonitro-derivatives of (JANOVSKY), 1887, A., 478.
- bromonitr- (WILLGERODT), 1888, A., 949.
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- chloro-*p*-nitr- (DANM and GASIOROWSKI), 1887, A., 248.
- m*-chloro-*o*-nitr- (WILLGERODT and FERRO), 1888, A., 830.
- allo*-*m*-chloro-*o*-nitr- (WILLGERODT and ELLON), 1891, A., 1361.
- chlorodinitr-, and chlorotritr- (WILLGERODT and ELLON), 1891, A., 1361.
- p*-chlorodinitr-, *p*-chlorotritr-, and *p*-chlorotetritr- (WILLGERODT), 1890, A., 1118.
- p*-chloronitronitroso-derivatives (WILLGERODT), 1890, A., 1118.
- m*-chloro-*o*-nitroso- (WILLGERODT and FERRO), 1888, A., 830.
- p*-chlorodinitroso- (WILLGERODT), 1890, A., 1119.
- p*-cyan- (MENTHA and HEUMANN), 1887, A., 248.
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- Azobenzene**, nitro-derivatives of (JANOVSKY), 1883, A., 867; 1887, A., 663.
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 dinitro-compounds (JANOVSKY), 1886, A., 794.
 dinitr., reduction of (JANOVSKY), 1885, A., 789.
 o- and m-trinitr. (KLINGER and ZUURDEG), 1890, A., 762.
 p-trinitr., and o-p-tetranitr. (WILLGERODT and HERMANN), 1890, A., 1259.
 dinitro-m- and -p-amido- (ODDO), 1891, A., 554.
 nitronitroso- (WILLGERODT and HERMANN), 1889, A., 1161.
 reduction of (WILLGERODT), 1892, A., 1322.
 nitrodinitroso- (WILLGERODT and FERKO), 1888, A., 829; (WILLGERODT), 1891, A., 689.
 dinitronitroso-, conversion of trinitrohydrazobenzene into (FREUND), 1889, A., 977.
 dinitrodinitroso-, and trinitronitroso- (WILLGERODT and HERMANN), 1890, A., 1259.
 dinitroso- (WILLGERODT and FERKO), 1888, A., 830; (WILLGERODT and HERMANN), 1889, A., 1160; (KEHRMANN and MESSINGER), 1892, A., 889; (WILLGERODT), 1892, A., 1079; (KEHRMANN), 1892, A., 1198.
 preparation of (WILLGERODT), 1892, A., 1321.
Azobenzeneazo-p-chloronitrobenzene, trinitronitroso- (WILLGERODT), 1890, A., 1119.
Azobenzeneazo-p-cresol (NÖLTING and KOHN), 1884, A., 901.
Azobenzeneazonaphthol, m-nitr. (nitrobenzeneazonaphthol) (MELDOLA), 1881, T., 113.
Azobenzeneazo-β-naphthylethylamine (HENRIQUES), 1885, A., 168.
Azobenzene-o-carboxylic acid, and its p-bromo- and p-chloro-derivatives (PAAL), 1892, A., 67.
Azobenzene-p-carboxylic acid (MENTHA and HEUMANN), 1887, A., 248.

AZO-COMPOUNDS—

- Azobenzene-p-chlorazobenzene**, nitro-trinitroso- (WILLGERODT and BÖHM), 1891, A., 907.
 trinitronitroso- (WILLGERODT), 1890, A., 1119; (WILLGERODT and BÖHM), 1891, A., 907.
Azobenzenechlorobenzamide (LIMPRICHT), 1891, A., 1037.
Azobenzene-m-chlorophenylhydrazine, trinitr. and trinitronitroso- (CURTIUS and LANG), 1892, A., 455, 456.
Azobenzene-p-chlorophenylhydrazine, tetranitr. (WILLGERODT and BÖHM), 1891, A., 907.
 trinitronitroso- (WILLGERODT), 1890, A., 1119; (WILLGERODT and BÖHM), 1891, A., 907.
Azobenzeneacyanacetophenone (HALLER), 1889, A., 873.
Azobenzenediazine sulphite (GRIESS), 1883, A., 181.
Azobenzenedisulphonamides, tetra- and hexa-brom- (RODATZ), 1883, A., 479, 480.
Azobenzene-3:3-disulphonamide (LIMPRICHT and MEYER), 1892, A., 973.
Azobenzenedisulphonic acid (GRIESS), 1883, A., 182.
 from "acid-yellow" (EGER), 1889, A., 709.
Azobenzenedisulphonic acids, constitution of (RODATZ), 1883, A., 477.
 brominated, and their derivatives (RODATZ), 1883, A., 478.
Azobenzene-m-hydroxybenzoic acid (LIMPRICHT), 1891, A., 1037.
Azobenzeneinduline, amido- (FISCHER and HEPP), 1891, A., 1016.
Azobenzene-o-methylecyanacetophenone (HALLER), 1889, A., 874.
Azobenzenenitrolic acids (JANOVSKY and ERB), 1885, A., 891.
Azobenzenephenylenediaminebenzene (GRIESS), 1883, A., 1102.
Azobenzenephenylenediamine-p-toluene, α- and β- (GRIESS), 1883, A., 1102, 1103.
Azobenzenephenylhydrazine, chloronitro- and nitro-derivatives of (WILLGERODT and MÜHM), 1892, A., 456.
 trinitronitroso- (WILLGERODT), 1890, A., 1119; (WILLGERODT and BÖHM), 1891, A., 907.
Azobenzenephenylthiocarbamide (BERKE), 1884, A., 1149.
Azobenzene-β-resorcylic acid (LIMPRICHT), 1891, A., 1037.

AZO-COMPOUNDS—

Azobenzenesalicylaldehyde (TUMMLEY), 1889, A., 780.

Azobenzenesalicylamide (TUMMLEY), 1889, A., 780.

Azobenzenesalicylic acid and its derivatives (LIMPRICHT), 1891, A., 1036.

Azobenzenesalicylic alcohol (TUMMLEY), 1889, A., 780.

Azobenzenesulphinic acids (LIMPRICHT), 1885, A., 984; (BAUER), 1885, A., 1139.

Azobenzenesulphonic acid, nitro/*di*-nitroso- (WILLGERODT and FERRO), 1888, A., 829.

Azobenzene-*p*-sulphonic acid, substitution products of (JANOVSKY), 1883, A., 1101.

p-amido- (GRIESS), 1883, A., 181. and its salts (JANOVSKY), 1883, A., 867, 1101.

m-brom- (JANOVSKY and ERB), 1887, A., 478.

p-brom-, and its salts (JANOVSKY), 1884, A., 1116; (JANOVSKY and ERB), 1887, A., 478.

chlor-, and its derivatives (MENTHA and HEUMANN), 1887, A., 248.

*di*chlor-, salts of (CALM), 1883, A., 341.

o-nitr- (LERCHE), 1889, A., 881.

p-nitr-, and its salts (JANOVSKY), 1883, A., 867.

di-nitr- and its salts (JANOVSKY), 1884, A., 1145.

Azobenzenesulphonic acids and their salts and nitro-compounds (JANOVSKY), 1883, A., 321.

Azobenzenethiosulphonic acids (LIMPRICHT), 1885, A., 981; (BAUER), 1885, A., 1139.

Azobenzetyl peroxide (BECKMANN), 1889, A., 980.

***p*-Azobenzylidisulphonic acid** (MOHR), 1884, A., 69.

Azobenzil (*benzilum*), Zinin's (JAPP), 1883, T., 17; 1884, A., 313; (HEINUS), 1885, A., 1067.

Azobenzoic acids, action of alcohol on (REMSEN and GRAHAM), 1889, A., 975.

***p*-Azobenzoic acids**, *mono*- and *di*-nitro- (ROZIANKO), 1889, A., 141.

Azobenzoylcarbinol (*syn.* for isatin) (GUMPERT), 1886, A., 342.

Azobenzylethylamidophenol (LELLMANN and BOYE), 1890, A., 1116.

***p*-Azobenzylidisulphonic acid**. See Tolueneazotoluene-*di-o*-sulphonic acid.

AZO-COMPOUNDS—

***o*-Azo-*p*-bromacetanilide** (MATTHIESSEN and MIXTER), 1887, A., 251.

Azocamphene (TANLI), 1888, A., 720.

Azocarboxylic acid (OSPL), 1883, A., 792.

Azocresol-compounds (NOLTING and KOHN), 1884, A., 900.

Azo-*p*-cresol (LIEBERMANN and v. KOSTANECKI), 1884, A., 736.

Azocumene (POSTECHOFF), 1886, A., 459.

Azo- ψ -cumene (ψ -*cumenecar-o- ψ -cumene*) (POSTECHOFF), 1888, A., 110.

o-amido- (ZINCKE and JÄNKE), 1888, A., 469.

Azocumic acid, derivatives of (ALEXÉEFF), 1885, A., 390.

Azocumic chloride (ALEXÉEFF), 1890, A., 891.

Azocymene (*cymeneazocymene*) (SCHTUMOFF), 1888, A., 469.

Azodiacetamidotoluene (BANKIEWICZ), 1889, A., 865.

Azodibenzenephenylenediamine (*benzenecarobenzeneophenylenediamine*) (GRIESS), 1883, A., 1103.

***o*-Azodibenzylamine** (LELLMANN and ARNOLD), 1892, A., 316, 890.

Azodicarbonamide and its salts (THIELE), 1892, A., 1297. preparation of (THIELE), 1892, A., 1430.

Azodicarboxylic acid (THIELE), 1892, A., 1429.

Azodihydrobenzene, *p*-*di*nitr- (WILLGERODT), 1890, A., 1116.

Azodihydroxyquinoline (BISCHOFF), 1889, A., 519.

Azodimethoxyphenylpyrazole (KNORR and BLANK), 1884, A., 1380.

Azodimethylquinol and its *di*bromoderivatives (BÄRSSLER), 1884, A., 1230; 1887, A., 361.

Azoethylbenzenes, *o*- and *p*-, and their reduction (SCHULTZ), 1884, A., 903.

Azoimide (*nitrogen hydride; hydrazoic acid*) (CURTIUS), 1891, A., 56; 1892, A., 112; (MENDLÉEFF), 1891, A., 394; (CURTIUS and RADENHAUSEN), 1891, A., 521. preparation of (MAUMENÉ), 1891, A., 262.

formation of (MELNOLA and HAWKINS), 1892, P., 133.

formation of, from *di*nitrotriazobenzene (NOLTING and GRANDMOUGIN), 1891, A., 1473.

AZO-COMPOUNDS—

- Azoimide** (*nitrogen hydride; hydrazoic acid*), synthesis of (WILGEMUS), 1892, A., 1151.
 thermochemistry of (BACH), 1892, A., 933.
 heat of formation of (BENTHELOF and MATIGNON), 1892, A., 261.
 action of, on living organisms (LOEW), 1892, A., 90.
- Azoisatin** (CURTIUS and LANG), 1892, A., 451.
- Azomalonobenzoic acid** (GRIESS), 1885, A., 788.
- Azomesitylene** (SCHULTZ), 1884, A., 901.
- Azomethoxyphenylethylpyrazole** (KNORR and BLANK), 1884, A., 1380.
- Azo-*p*-methoxytoluene** (SCHULHÖFER), 1891, A., 1232.
 amido- (LIMPACH), 1889, A., 499.
- Azo-2'-methylindole** (WAGNER), 1888, A., 284.
- Azomethylphenyl** (*benzenearomethane*) (TAFEL), 1885, A., 1061.
- Azo-1-methylquinoline** (NÖLTING and TRAUTMANN), 1891, A., 328; 1892, A., 729.
- Azo- α -naphthalene** (*naphthaleneazo- α -naphthalene*) and its derivatives (NIETZKI and GOLL), 1885, A., 545; 1886, A., 245.
 preparation and reduction of (FRIEDLÄNDER), 1889, A., 607.
 amido-, spectrum of (HARTLEY), 1887, T., 190.
 melting-point of (NIETZKI and GOLL), 1885, A., 545.
 formation of pyridine from (v. BUCHKA and SPRANCK), 1889, A., 728.
- Azo- β -naphthalene**, derivatives of (NIETZKI and GOLL), 1886, A., 714; (MELDOLA and EAST), 1888, T., 460; P., 47.
 amido- (NIETZKI and GOLL), 1886, A., 714.
 spectrum of (HARTLEY), 1887, T., 191.
 derivatives of (ZINCKE and LAWSON), 1888, A., 159.
- β - α -Azonaphthalene** and its amido-compound (NIETZKI and GÖTTIG), 1887, A., 590.
- Azonaphthalenesalicylic acids**, α - and β - (GERKE), 1889, A., 780.
- α -Azo- α -naphthol compounds** (NÖLTING and GRANDMOUGIN), 1891, A., 1074.

AZO-COMPOUNDS—

- Azo- β -naphthol compounds** containing acid radicles, reduction of (MELDOLA and MORGAN), 1889, T., 117.
 acetyl derivatives of (MELDOLA), 1888, A., 187.
 alkyl derivatives of (MELDOLA and MORGAN), 1889, T., 603.
 benzoyl derivatives of (MELDOLA and MORGAN), 1889, T., 111.
- Azonaphthol-dyes**, constitution of (LIEBERMANN), 1884, A., 609.
- Azonaphthols** (MELDOLA and MORGAN), 1889, T., 603; P., 127.
- Azo- β -naphthylphenylamine** (ZINCKE and LAWSON), 1887, A., 730; (ZINCKE), 1890, A., 990.
- Azonitrobenzenesalicylic acid** (GERKE), 1889, A., 780.
- Azonitrolic acids**, reduction of (JANOVSKY), 1885, A., 789.
- Azonitromethanebenzoic acid** (GRIESS), 1883, A., 788.
- Azo-opianic acid**. See *o*-Amidohemipinic anhydride.
- m*-Azophenetol** (BUCHSTAN), 1881, A., 1147.
- o*-Azophenol**, trichlor- (BOHN and HEUMANN), 1884, A., 1015.
- p*-Azophenol** and its sulphonic acid (BOHN and HEUMANN), 1883, A., 583.
- Azophenols**, behaviour of, towards various reagents (BOHN and HEUMANN), 1884, A., 1014.
- Azo-*o*-phenoxyacetic acid** and its salts (THATK), 1881, A., 1170.
- Azophenylacetic acid** and its salts (WITTENBERG), 1885, A., 661.
- Azophenylacetoacetamide** (LEUCKART and HOLTZAPFEL), 1889, A., 864.
- Azophenylallyl** (*benzenearopropylene*) (FISCHER and KNOEVENAGEL), 1887, A., 933.
- Azophenylene**. See Phenazine.
- Azophenylenediaminebenzene-*m*-benzoic acid** (GRIESS), 1883, A., 1103.
- m*-Azophenyglyoxylic acid** and its salts (THOMPSON), 1883, A., 998.
- Azophenyldrazine compounds** (WILGEMOUT), 1890, A., 1118.
- Azophthalic acid**, action of stannous chloride on (CLATS and HEMMANN), 1883, A., 1126.
- Azoresorcinol** and its derivatives (BRUNNER and KRAEMER), 1881, A., 1333; (BRUNNER), 1885, A., 776.

AZO-COMPOUNDS—

- Azoresorufin** and its derivatives (BRUNNER and KRAEMER), 1881, A., 1333, 1351; (BRUNNER), 1885, A., 776.
 dimethyl ether (KRAEMER), 1881, A., 1311.
Azoresorufylhydrochloride (BRUNNER and KRAEMER), 1881, A., 1334.
Azosulphimecarbohydro-sulphides (TIEMANN), 1891, A., 557.
Azo-*p*-sulphobenzene- δ -diamidobenzoic acid (GRIESS), 1883, A., 184.
Azo-*p*-sulphobenzene-phenylenediamine (*phenylenediamineazobenzeneazobenzenesulphonic acid*) (GRIESS), 1883, A., 1103.
Azo-*p*-sulphobenzene-phenylenediaminebenzene (*benzeneazophenylenediamineazobenzenesulphonic acid*) (GRIESS), 1883, A., 1103.
Azosulphobenzene-toluenediamine.
 See *Tolylendiamineazobenzeneazobenzenesulphonic acid*.
Azoterephthalic acid (HOMOLKA and LÖW), 1886, A., 702.
Azotetrahydro- α -naphthalene, *ar-amido-* (BAMBERGER and LENG-FELD), 1890, A., 1305.
Azotoline (FISCHER and HEPP), 1891, A., 1016.
***o*-Azotoluene** (SCHULTZ), 1884, A., 903; (POSPECHOFF), 1888, A., 825.
o-amido-, oxidation of (ZINCKE), 1886, A., 236.
 nitro-derivatives of (POSPECHOFF), 1889, A., 501.
***m*-Azotoluene**, *dinitro-* (v. BUCHKA and SCHACHTERBECK), 1889, A., 701.
***p*-Azotoluene** (PIERSON and HEUMANN), 1883, A., 915; (JANOVSKY), 1889, A., 250.
 substitution products of (JANOVSKY and ERN), 1887, A., 479; (JANOVSKY and REIMANN), 1888, A., 686.
 amido-, and its derivatives (NÖLTING and WITT), 1881, A., 742.
o-bromo-, *m*-bromo-, and *di-m*-bromo- (JANOVSKY and REIMANN), 1888, A., 686.
 chloro- (MENTHA), 1887, A., 218.
 nitro-derivatives of (JANOVSKY and ERN), 1887, A., 479; (JANOVSKY), 1889, A., 251; 1890, A., 140.
***m-p*-Azotoluene** (ZINCKE and LAWSON), 1886, A., 795.
Azotoluenes (JANOVSKY), 1890, A., 140.
tri-nitr-, isomerism of (HANTZSCH and WERNER), 1890, A., 350.

AZO-COMPOUNDS—

- o*-Azotoluene-*p*-disulphonamide** (HELLE), 1892, A., 1168.
Azotoluenedisulphonic acids and their derivatives (KORNAITZKI), 1881, A., 71.
Azo-*p*-toluenephenylenediaminebenzene (GRIESS), 1883, A., 1103.
Azo-*p*-toluenephenylenediamine- β -naphthalene (GRIESS), 1883, A., 1103.
***p*-Azotoluene-*m*-sulphonic acid** (JANOVSKY), 1888, A., 370.
o-bromo- (JANOVSKY and REIMANN), 1888, A., 686.
Azotoluidine and its salts (LIMPRICHT), 1885, A., 975; (GRAEFF), 1885, A., 1123.
***o*-Azo-*o*-toluidine** (GREEN and LAWSON), 1891, T., 1016.
Azo-*o*-toluquinoline. See *Azo-1-methylquinoline*.
Azotolyl (BARSKOWSKY), 1888, A., 140.
Azoxazolecarboxylic acid (SODERBAUM), 1891, A., 827, 1184; (WOLFF and GANS), 1891, A., 896.
Azoximes (TIEMANN and KRÜGER), 1881, A., 1325; (TIEMANN), 1885, A., 895; 1890, A., 41, 140, 141, 253; 1891, A., 538; 1892, A., 135, 317.
***p*-Azoxyacetanilide** (MIXTER), 1884, A., 301.
Azoxy-*p*-acetotoluidide (BANKIEWICZ), 1889, A., 865.
***p*-Azoxyaniline** and its derivatives (MIXTER), 1881, A., 301.
Azoxyanilide, *o*- and *m*- (MIXTER), 1884, A., 301.
***p*-Azoxybenzanilide** (MIXTER), 1884, A., 666.
Azoxylbenzene, Klinger's method of preparing (MOLTSCHANOWSKI), 1883, A., 180.
 resolution of (FRISWELL and GREEN), 1885, T., 923.
***m*-N-chloro-** (SCHULTZ), 1884, A., 903.
 chloronitronitroso- (WILLEROIT and MÖHR), 1892, A., 455.
p-chloronitronitroso- (WILLEROIT and BÖHM), 1891, A., 905.
 nitr- (JANOVSKY and ERN), 1887, A., 479, 661.
m-dinitr- (KLINGER and PITTSCHKE), 1886, A., 53.
o- and *m-trinitr-* (KLINGER and ZUURDERG), 1890, A., 761.
Azoxylbenzenesulphonic acids, and their salts (LIMPRICHT), 1885, A., 981.

AZO-COMPOUNDS—

- Azoxybenzotoluidide** (MIXTER), 1881, A., 666.
- p*-Azoxybenzoylformic acid** (ENGLER and ZIEGLER), 1889, A., 506.
- o*-Azoxybenzylethylaniline** (LELLMANN and BOYLE), 1890, A., 1116.
- p*-Azoxy-*o*-dichlorostilbene** (WITT), 1892, A., 441.
- Azoxydiphenylamine** (FISCHER and WACKER), 1888, A., 1286.
- Azo-*o*-xylene**, 1:2:3- (NÖLTING and STRICKER), 1889, A., 135.
- Azo-*m*-xylene**, 1:3:1- (NÖLTING and STRICKER), 1889, A., 136.
- Azo-*p*-xylene**, 1:1:2- (SAMANOFF), 1883, A., 780; (NÖLTING and STRICKER), 1889, A., 136.
- m-p*-Azoxyene** (ZINCKE and JÄHNKE), 1888, A., 470.
- Azo-xylenes and colouring matters** derived therefrom (NÖLTING and STRICKER), 1889, A., 135.
- amido-** (NÖLTING and FOREL), 1886, A., 58.
- Azo-*m*-xylenedisulphonic acid** (1:3:4.6-) and its salts (JACOBSEN and LEIDEBROGE), 1883, A., 593.
- Azoxy-*p*-methoxytoluene** (BRASCH and FREYSS), 1891, A., 1231.
- Azoxymethylethylisooxazole** (HANNOT), 1892, A., 79.
- Azoxy-1-methylquinoline** (NÖLTING and TRAUTMANN), 1891, A., 328.
- Azoxymethylquinolines** (NÖLTING and TRAUTMANN), 1892, A., 727, 729.
- α*-Azoxy-naphthalene-*α*-sulphonic acid** and its salts (ALEX), 1886, A., 555.
- α*-Azoxy-*β*-naphthylamine** (HARDEN), 1890, A., 631.
- p*-Azoxyphenetol** (KINZEL), 1892, A., 159.
- Azoxyphenol ethers** (GATTERMANN and RITSCHKE), 1890, A., 1119.
- p*-Azoxyphenol** (FISCHER and WACKER), 1888, A., 1286.
- Azoxy-*o*-phenoxyacetic acid** (THATE), 1881, A., 1170.
- Azoxypropylbenzoic acid** (WIDMANN), 1883, A., 330.
- Azoxyisopropylbenzoic acid** (ALEX-LEFF), 1885, A., 390.
- Azoxyterephthalaldehydic acid** (HOMOLKA and LOW), 1886, A., 701.
- Azoxyterephthalic acid** (HOMOLKA and LOW), 1886, A., 702.
- "Azoxytoluene"** [Petrieff's] (POSPECHOFF), 1888, A., 826.
- o*-Azoxytoluene** (KLINGER and RITSCHKE), 1886, A., 53; (GATTERMANN), 1887, A., 932.

AZO-COMPOUNDS—

- m*-Azoxytoluene** (v. BUCHKA and SCHACHTEBERG), 1889, A., 701.
- Azoxytoluenes** (JANOVSKY), 1890, A., 110.
- two isomeric (JANOVSKY and REIMANN), 1889, A., 392.
- α*- and *β*-, and their bromo- and nitro-derivatives (JANOVSKY), 1889, A., 865.
- p*-Azoxytoluenes**, isomerism of (HANTZSCH and WERNER), 1890, A., 350.
- Azoxytoluenesulphonic acid** (JANOVSKY and REIMANN), 1889, A., 392.
- Azoxytoluidine** (LIMPRICHT), 1885, A., 974.
- p*-Azoxy-*o*-toluidine** (GREEN and LAWSON), 1891, T., 1016.
- salts of (GRAEFF), 1885, A., 1128.
- o*-Azoxy-*p*-toluonitrile** (NIESEN-TOWSKI), 1889, A., 1005.
- m*-Benzamidoazophenol** (SCHULZE), 1889, A., 778.
- Benzazimide** (FINGER), 1888, A., 918.
- Benzeneazo-**. See also Phenylazo- and Azobenzene.
- Benzeneazoacetone**. See Pyruvaldehydphenylhydrazon.
- Benzeneazoaniline**, preparation of (WITT and THOMAS), 1883, T., 113; (FISCHER), 1884, A., 1011.
- action of acetone on (ENGLER and SCHESTOPAL), 1887, A., 180.
- action of aniline hydrochloride on (WITT and THOMAS), 1883, T., 112; (STERL), 1892, A., 492.
- action of hydrochloric acid on (FISCHER), 1881, A., 1011.
- by-products in the manufacture of (GATTERMANN and WICHMANN), 1888, A., 829.
- relation of diazobenzeneimide to (FRISWELL and GREEN), 1885, T., 917; P., 102; 1887, P., 26.
- Wallach's explanation of the isomeric transformation of diazamidobenzene into (MELDOLA), 1887, P., 27.
- derivatives of (JANOVSKY), 1883, A., 867; (BERNU), 1884, A., 1148; 1885, A., 660; (NÖLTING and BAUMANN), 1885, A., 386.
- Benzeneazoaniline**, amido- (MIXTER), 1889, A., 666; (NIEZKI), 1881, A., 1016; (JANOVSKY), 1885, A., 1131.
- m*-nitro- (MELDOLA), 1884, T., 112.
- Benzeneazoaniline mono- and di-sulphonic acids** (HUBES), 1883, A., 181.

AZO-COMPOUNDS—

- Benzeneazobenzaldehyde** (BEYER and CLAISEN), 1888, A., 828.
Benzeneazobenzeneazo-*p*-cresol (NÖLTING and KOHN), 1881, A., 901.
Benzeneazobenzeneazonaphthol, nitro- (MELDOLA), 1881, T., 113.
Benzeneazobenzeneazophenylenediamine (GRIFFIN), 1883, A., 1103.
Benzeneazobenzoic acid (MENTHA and HEUMANN), 1887, A., 248.
Benzeneazobenzonitrile (MENTHA and HEUMANN), 1887, A., 248.
Benzeneazobenzoylactic acid, and *o*-nitro- (BAMBERGER and CALMAN), 1886, A., 62.
Benzeneazobenzoylacetone (BEYER and CLAISEN), 1888, A., 828.
Benzeneazobenzylidene- β -naphthylamine (GOLDSCHMIDT and ROSELI), 1890, A., 616.
Benzene-*o*-azobromobenzene (JANOVSKY), 1886, A., 795; (JANOVSKY and ERB), 1886, A., 1024.
Benzene-*m*-azobromobenzene (JANOVSKY and ERB), 1886, A., 1024; 1887, A., 478.
Benzene-*p*-azobromobenzene (JANOVSKY and ERB), 1887, A., 478; (JANOVSKY), 1887, A., 663; (NÖLTING and WERNER), 1891, A., 211.
Benzeneazo-bromonitrobenzene and -bromonitrosobenzene (WILLGERODT), 1888, A., 949.
Benzeneazo-*i*/bromobenzene, *i*/bromo- and benzeneazo-*r*/bromobenzene, *r*/bromo-, disulphochlorides (RODATZ), 1883, A., 479.
Benzeneazo-*p*-bromobenzene, nitro- and nitroso-derivatives of (WILLGERODT and ELLON), 1891, A., 1362.
Benzeneazocarvacrol (MAZZARA), 1885, A., 1132.
Benzeneazo-*p*-chlorobenzamide (LIMPRICH), 1891, A., 1037.
Benzeneazochlorobenzene, and its derivatives (HEUMANN and MENTHA), 1886, A., 874; 1887, A., 247.
Benzeneazo-*o*-chlorobenzene, *d*/nitro-nitroso- (WILLGERODT), 1891, A., 1013.
Benzeneazo-*m*-chlorobenzene, nitro- and nitronitroso-derivatives of (WILLGERODT and MÜHE), 1892, A., 454.
Benzeneazo-*p*-chlorobenzene, nitro- and nitronitroso-derivatives of (WILLGERODT and BÖHM), 1891, A., 905.

AZO-COMPOUNDS—

- Benzeneazo-chloronitrobenzene and -chloronitrosobenzene** (WILLGERODT and FERRO), 1888, A., 830.
Benzeneazo-*m*-chlorodimethylaniline, *m*-nitro- (STAEDEL and BAUER), 1886, A., 911.
 β -Benzeneazo- α -chloronaphthalene (ZINCKE and KEGEL), 1889, A., 267.
Benzeneazo-*o*- and -*p*-cresetols (NÖLTING and WERNER), 1891, A., 212.
Benzeneazo-*m*-cresol (NÖLTING and KOHN), 1881, A., 902.
Benzeneazo-*o*- and -*p*-cresols, and their acetic and benzoic derivatives (LIEBERMANN and V. KOSTANECKI), 1881, A., 736; (NÖLTING and KOHN), 1881, A., 900.
Benzeneazo-*p*-cresol, *m*- and -*p*-chloro- (GOLDSCHMIDT and POLLAK), 1892, A., 974, 975.
***o*-nitro-** (GOLDSCHMIDT and BRUBACHER), 1891, A., 1210.
Benzeneazocresols, reduction of (LIEBERMANN and V. KOSTANECKI), 1881, A., 1116.
Benzeneazo-*p*-cresolsulphonic acid (NÖLTING and KOHN), 1881, A., 901.
Benzeneazocumenol, and its reduction (LIEBERMANN and V. KOSTANECKI), 1881, A., 1117.
Benzeneazocyanacetophenone (HALLER), 1889, A., 873.
Benzeneazocyanocamphor (MINGUIN), 1892, A., 1313.
Benzeneazo-2-2'-dianilidonaphthalene (CLAUSIUS), 1890, A., 629.
Benzeneazodibenzoylmethane (BEYER and CLAISEN), 1888, A., 828.
Benzeneazodibenzoylmethane-*p*-sulphonic acid, sodium salt of (BEYER and CLAISEN), 1888, A., 828.
Benzeneazodihydroxynaphthalene, 1:2-2' (CLAUSIUS), 1890, A., 628.
Benzeneazodimethylaniline, *m*-amido- (WALLACH), 1887, A., 41.
***p*-amido-** (MELDOLA), 1881, T., 107.
***r*/bromo-** (SILBERSTEIN), 1883, A., 661.
***m*-chloro-** (STAEDEL and BAUER), 1886, A., 911.
nitro-derivatives of (NÖLTING), 1888, A., 270.
***m*-nitro-** (MELDOLA), 1881, T., 120; 1887, A., 152; (STAEDEL and BAUER), 1886, A., 911.
***p*-nitro-** (MELDOLA), 1881, T., 107.
 See also Dimethylanidoazobenzene.

AZO-COMPOUNDS—

- Benzeneazodimethylanilinesulphonic acid** (NÖLTING), 1888, A., 271.
- Benzeneazo- α -dinaphthylamine** (FISCHER and HLEP), 1890, A., 912.
- α -Benzeneazo- α - β -dinaphthylamine** (MATTHEUS), 1890, A., 385, 993.
- Benzeneazo- β - β -dinaphthylamine** (MATTHEUS), 1890, A., 993.
- Benzeneazodiphenyl** (LOCHER), 1888, A., 589.
- Benzeneazodiphenylamine**, *m*-nitro- (MELDOLA), 1884, T., 118, 119.
- p*-nitro- and *p*-amido- (MELDOLA), 1883, T., 440.
- m*- and *p*-nitroso- (MELDOLA), 1884, T., 118, 119.
- Benzeneazodiphenylcarbamide** (GOLDSCHMIDT and ROSELT), 1890, A., 616.
- Benzeneazodiphenyldisulphonic acid** (GRÜSS), 1888, A., 827.
- Benzeneazodiphenylthiocarbamide** (BERJT), 1884, A., 1149.
- o*-Benzeneazoethylresorcinol** (PUKALL), 1887, A., 662.
- Benzeneazo-*m*-hydroxybenzoic acid** (LIMPRICHT), 1891, A., 1037.
- Benzeneazohydroxybenzyl alcohol** (TUMMELEY), 1889, A., 780.
- m*-Benzeneazo-*o*-hydroxymethylquinoline** (GANGLIN and V. KOSTANECKI), 1892, A., 506.
- Benzeneazo-*o*- and -*p*-hydroxyquinolines** (MATHEUS), 1888, A., 851.
- Benzeneazo-*p*-hydroxyquinolinesulphonic acid** (MATHEUS), 1888, A., 851.
- Benzeneazoindoxyl** (V. BAeyer), 1884, A., 74.
- Benzeneazoidobenzene** (NÖLTING and WERNER), 1891, A., 211.
- iodo-, colour of (LING), 1892, P., 198.
- Benzeneazo-ketones** (V. RUCHTER and MUNZER), 1884, A., 1312.
- Benzeneazomalonic acid** (MEYER), 1888, A., 369; 1891, A., 922.
- Benzeneazomethane** (*cumethyphenyl*) (TAFEL), 1885, A., 1061.
- Benzeneazomethylaniline**, *p*-nitro- (NÖLTING), 1888, A., 273.
- and its acetyl derivative (BERJT), 1884, A., 1149.
- Benzeneazo-*o*-methylcyanacetophenone** (HALLER), 1889, A., 874.
- 1'-Benzeneazo-2"-methyl-*ar*-octohydro- β -naphthaquinoline** (BAMBERGER and MÜLLER), 1891, A., 1512; (BAMBERGER and STRASSER), 1891, A., 1513.

AZO-COMPOUNDS—

- 2'-Benzeneazo-2"-methyl-*ar*-octohydro- β -naphthaquinoline** (BAMBERGER and STRASSER), 1891, A., 1513.
- Benzeneazo- α -naphthaleneazo- α - and - β -naphthols**, *m*-nitro- (MELDOLA), 1884, T., 114, 116.
- Benzeneazo- α -naphthaleneazoresorcinol**, *m*-nitro- (MELDOLA), 1884, T., 116.
- Benzeneazonaphthalenes**, nitro-, nitroso-, and nitronitroso-derivatives of (WILLACHER and SCHULTZ), 1891, A., 572.
- Benzeneazonaphtharesorcinol**, nitroso- (V. KOSTANECKI), 1890, A., 261.
- Benzeneazo- α -naphthol**, action of diazobenzoic acid and of diazodisulphanilic acid on (NÖLTING and GRANDMOUGIN), 1891, A., 1076.
- identity of, with α -naphthaquinonehydrazido (ZINCKE and BINDENWALD), 1885, A., 391.
- amido-, methyl and ethyl ethers of (WITT and SCHMIDT), 1892, A., 862.
- Benzeneazo- β -naphthol**, action of carbon disulphide on (JACOBSON), 1888, A., 487.
- reduction of (MELDOLA and MORGAN), 1889, T., 122; P., 12.
- m*-nitro-, acetyl derivative of (MELDOLA and EAST), 1888, T., 464.
- Benzeneazo- α - and - β -naphthols** (LIEBERMANN), 1884, A., 610; (ZINCKE and KATHGEN), 1887, A., 54.
- p*-nitro- and *p*-amido- (MELDOLA), 1885, T., 661, 662.
- Benzeneazo- α -naphthol-*m*-carboxylic acid**, *o*- and -*p*- (NÖLTING and GRANDMOUGIN), 1891, A., 1074.
- Benzeneazo- β -naphtholdisulphonic acid**, oxidation of (LAUTH), 1892, A., 48.
- Benzeneazonaphtholsulphonic acid**, spectrum of (HARTLEY), 1887, T., 196.
- Benzeneazo- α -naphthylamidoacetic acid** (DONNER), 1892, A., 191.
- o*-, *m*-, and *p*-nitro- (DONNER), 1892, A., 1100.
- Benzeneazo- α -naphthylamine**, *p*-amido- (MELDOLA), 1883, T., 432.
- m*-nitro- (MELDOLA), 1884, T., 114.
- p*-nitro- (MELDOLA), 1883, T., 430.
- Benzeneazo- β -naphthylamine** and its derivatives (LAWSON), 1885, A., 803; (ZINCKE and LAWSON), 1888, A., 159.

AZO-COMPOUNDS—

- Benzeneazo- β -naphthylamine**, action of aldehydes and of nitric acid on (MELDOLA and HUGHES), 1891, T., 379.
 action of dimethylaniline on (GOLDSCHMIDT and BARDACH), 1892, A., 980.
 derivatives (MELDOLA and HUGHES), 1891, A., 372; P., 83.
 triazine from (MELDOLA), 1890, T., 329.
o-nitro- (MELDOLA and HUGHES), 1891, T., 373.
m-nitro-, action of nitrous acid on (MELDOLA and EAST), 1888, T., 463.
p-nitro-, and its reduction (MELDOLA), 1888, T., 430.
 formation of ψ -azinides from (MELDOLA and HUGHES), 1891, T., 378.
- Benzeneazo- β -naphthylamines**, nitro-, constitutional formulae of (MELDOLA), 1884, T., 118.
 acetyl derivatives of (MELDOLA and HUGHES), 1891, T., 375.
- Benzeneazo- α -naphthylidimethylamine** (EICKER), 1891, A., 470.
- Benzeneazo- α -naphthylethylamine** (HENRIQUES), 1885, A., 168; (FISCHER and HEPP), 1890, A., 911; (EICKER), 1891, A., 470.
- Benzeneazo- β -naphthylethylamine** (HENRIQUES), 1885, A., 168.
- Benzeneazo- α -and- β -naphthylacetates**, nitration of (MELDOLA and MORGAN), 1889, T., 609.
- Benzeneazo- β -naphthyl acetate** (MELDOLA and EAST), 1888, T., 466; (MELDOLA and MORGAN), 1889, T., 609.
 reduction of (MELDOLA and MORGAN), 1889, T., 117, 122; P., 12.
- Benzeneazo- α -naphthyl benzoate** (MELDOLA and MORGAN), 1889, T., 606.
- Benzeneazo- β -naphthyl benzoate**, its reduction, and its *m*-nitro-derivative (MELDOLA and MORGAN), 1889, T., 115.
- Benzeneazo- α - and - β -naphthyl ethylates**, nitration of (MELDOLA and MORGAN), 1889, T., 608.
- Benzeneazo- α -naphthylphenylamine** (FISCHER and HEPP), 1890, A., 912.
- Benzeneazo- β -naphthylphenylamine** (HENRIQUES), 1885, A., 168; (ZINCKE and LAWSON), 1887, A., 730.

AZO-COMPOUNDS—

- Benzeneazo- α -naphthyl-*p*-tolylamine** (FISCHER and HEPP), 1890, A., 912.
- Benzeneazo- β -naphthyltolylamine** (MATTHEW), 1890, A., 992; (FISCHER), 1892, A., 1476.
- Benzeneazonitriline**, nitro- (ODDO), 1891, A., 554.
- Benzene-*o*-azonitrobenzene** (JANOVSKY), 1886, A., 794.
- Benzene-*p*-azonitrobenzene** (JANOVSKY and ERE), 1885, A., 894; 1887, A., 478.
 reduction of (JANOVSKY), 1885, A., 789.
 chloro- (DAHME and GASIOROWSKI), 1887, A., 248.
- Benzeneazonitrobenzenes** (JANOVSKY), 1888, A., 867; 1887, A., 663.
- Benzeneazo-*d*-nitrobenzene**, *o*- and *m*-nitro- (KLINGER and ZUTENDEG), 1890, A., 762.
p-nitro- and *o*-*p*-*d*-nitro- (WILLGERODT and HERMANN), 1890, A., 1259.
- Benzeneazonitrosobenzene-*p*-azochlorobenzene**, nitro-*d*-nitroso- (WILLGERODT and BÜHM), 1891, A., 907.
d-nitro-*d*-nitroso- (WILLGERODT), 1890, A., 1119; (WILLGERODT and BÜHM), 1891, A., 907.
- Benzeneazonitrosobenzeneazodinitro-nitrosobenzene**, chloronitro- (WILLGERODT), 1890, A., 1119.
- Benzene-*p*-azonitrobenzene**, *p*-nitro-, reduction of (JANOVSKY), 1885, A., 789.
- Benzeneazonitrosobenzeneazo-*r*-nitrobenzene**, chloro- (WILLGERODT and BÜHM), 1891, A., 907.
- Benzeneazonitrosoresorcinol** (v. KOSTANECKI), 1889, A., 137.
- Benzeneazo-*ar*-octohydro- α -naphthaquinoline** (BAMBERGER and STETTENHEIMER), 1891, A., 1261.
- Benzeneazophenetol**. See Elhoxyazobenzene.
- Benzeneazophenetolsulphonic acid** (FEER and MÜLLER), 1889, A., 258.
- Benzeneazophenol**, chloro- (HEUMANN and ORCONOMIDES), 1887, A., 664.
p-nitro-, and *p*-amido- (MELDOLA), 1885, T., 658, 659.
 See also Hydroxyazobenzene.
- Benzeneazophenylbiazalone** (FREUND and KUH), 1890, A., 1441.
- Benzeneazophenyldimethylpyrazole** [4:1:3:5-] (BEYER and CLAISEN), 1888, A., 828.

AZO-COMPOUNDS—

- Benzeneazophenylenediamino** and homologues, formation of (FRISWELL and GREEN), 1885, T., 923.
amido- (JANOVSKY), 1885, A., 1131.
Benzeneazo-*m*-phenylenediamine. See Chrysoidine.
Benzeneazophenylenediamineazo-benzene (GRIESS), 1883, A., 1102.
Benzeneazophenylenediamineazobenzenesulphonic acid (*azobenzophenylenediaminebenzene*) (GRIESS), 1883, A., 1103.
Benzeneazophenylenediamineazobenzoic acid (GRIESS), 1883, A., 1103.
Benzeneazophenylenediamineazotoluenes (GRIESS), 1883, A., 1102, 1103.
Benzeneazophenyl phosphite (HEIMANN and PAGANINI), 1891, A., 301.
Benzeneazophenylisoxalzone (CLAISEN and ZIMMER), 1891, A., 468.
Benzeneazophenylthio-, dithio-, and ψ -thio-biazolones (FIEBUND and KUHN), 1890, A., 1440.
Benzeneazopropylene (*azophenylallyl*) (FISCHER and KNOEVENAGEL), 1887, A., 933.
Benzeneazquinoline (EPHRAIM), 1891, A., 1509.
Benzeneazoresorcinol, and its purification (MEYER and KRIEGER), 1883, A., 982.
p-nitro-, and *p*-amido- (MELDOLA), 1885, T., 660.
 nitroso- (v. KOSTANECKI), 1889, A., 137.
p-**Benzeneazoresorcinol** (GOLDSCHMIDT and POLLAK), 1892, A., 977.
Benzeneazoresorcinylo mono- and dimethyl ethers, o- and *p*- (BEHMOLD), 1889, A., 1155.
 conversion of, into hydroxyquinol-derivatives (BEHMOLD), 1889, A., 1155.
Benzeneazo- β -resorcylic acid (LIMPRICHT), 1891, A., 1037.
Benzeneazosalicylamide and benzeneazosalicylic aldehyde (TUMMELEY), 1889, A., 780.
Benzeneazosalicylic acid (v. KOSTANECKI and ZIBELL), 1891, A., 1038.
 and its derivatives (LIMPRICHT), 1891, A., 1036.
p-amido-, and *p*-nitro- (MELDOLA), 1885, T., 666, 667.
 nitro- (GEBEL), 1889, A., 780.

AZO-COMPOUNDS—

- Benzeneazotetrahydro- α -naphthaquinoline** (BAMBERGER and STEINHEIMER), 1891, A., 1259.
1'-Benzeneazotetrahydro- β -naphthaquinoline (BAMBERGER and MULLER), 1891, A., 1510.
Benzeneazo-*o*-tetrahydro- α -naphthol (BAMBERGER and BORDT), 1890, A., 509.
Benzeneazo- α -tetrahydronaphthylamine (BAMBERGER and BORDT), 1889, A., 715.
Benzeneazothymol (MAZZARA and POSSETTO), 1885, A., 891.
 constitution of (MAZZARA), 1885, A., 1131; 1890, A., 884.
Benzeneazo-*p*-toluene (SCHULTZ), 1881, A., 903.
Benzeneazotriphenylpyrazole [1:3:5-] (BEYER and CLAISEN), 1888, A., 828; (DE NEUFVILLE and v. PECHMANN), 1891, A., 319.
Benzeneazoxazole (RUSSANOFF), 1892, A., 322.
Benzeneazoximidobenzene, *o*-trinitro- (WILLGERODT), 1892, A., 1154.
Benzeneazo-*m*-xyleneazo- α - and - β -naphthols, *p*-nitro- (MELDOLA), 1883, T., 431.
Benzeneazo-*m*-xyleneazo- α - and - β -naphtholsulphonic acid, *p*-nitro- (MELDOLA), 1883, T., 435.
Benzeneazo-*m*-xyleneazophenol, *p*-nitro- (MELDOLA), 1883, T., 435.
Benzeneazo-*m*-xyleneazoresorcinol, *p*-nitro- (MELDOLA), 1883, T., 436.
Benzeneazo-*m*-xylenol (GIERVINGK), 1886, A., 348.
Benzeneazo-*o*-xylydine (MENTON), 1891, A., 1205.
Benzeneazo-*m*-xylydine, *p*-amido- and *p*-nitro- (MELDOLA), 1883, T., 428, 432.
Benzenebisazo-*o*- and -*m*-cresols (NOLTING and KOHN), 1881, A., 902.
Benzenebisazomethoxybenzene (NOLTING and KOHN), 1881, A., 902.
Benzenebisazo- α -naphthol (NOLTING and GRANDMOUGIN), 1891, A., 1076.
Benzenebisazoresorcinol (LIEBERMANN and v. KOSTANECKI), 1881, A., 1147.
Benzenebisazothymol, constitution of (MAZZARA), 1890, A., 884.
Benzene-*p*-bromoxybenzene, nitro- and nitroso-derivatives of (WILLGERODT and ELLON), 1891, A., 1362.
Benzene-*m*-chlorazoxybenzene, nitro- nitroso- (WILLGERODT and MUMF), 1892, A., 455.

AZO-COMPOUNDS—

- Benzenes-*p*-chloro-*o*-nitrazobenzene**, *di*nitronitroso- (WILLGERODT and BOHM), 1891, A., 906.
- Benzenediazoacetanilide** (HEUSLER), 1892, A., 458.
- Benzenediazobenzylanilide**, dry decomposition of (HEUSLER), 1891, A., 555.
- Benzenediazoconiine** (WALLACH), 1887, A., 137.
- Benzenediazodimethylamide**, preparation of (HEUSLER), 1891, A., 556.
- Benzenediazonitrosodiphenylamine** (FISCHER and WACKER), 1888, A., 1286.
- Benzenediazonitrosophenyltolylamine** (REICHOLD), 1890, A., 610.
- Benzenediazophenol** (WALLACH and SCHULZE), 1883, A., 583.
- Benzenediazopiperidide** (WALLACH), 1887, A., 137.
dry decomposition of (HEUSLER), 1891, A., 555.
- Benzenes-*p*-diazopiperidide**, fluoro- (WALLACH and HEUSLER), 1888, A., 362.
nitro- (WALLACH), 1887, A., 131.
- Benzenediazoresorcinols**, isomeric (V. KOSTANECKI), 1889, A., 133.
- Benzenediazothiazole hydrate** (SCHATZMANN), 1891, A., 745.
- Benzenediazothymol** (MAZZARA and POSSETTO), 1885, A., 894.
- Benzenediazo-*p*-toluidide**, *p*-bromo- and *p*-chloro-, methylation of (MELDOLA and STREATFIELD), 1889, T., 433, 437; P., 98.
- Benzenylazosulphimecarbanilide** (TIEMANN), 1891, A., 558; (KOCH), 1891, A., 560.
- Benzenylazosulphimecarbo-*p*-bromo- and -nitroso-anilides** (KOCH), 1891, A., 561.
- Benzenylazosulphimecarbohydro- and -di-sulphides** (CRAYEN), 1891, A., 559.
- Benzenylazosulphimecarbothioethyl-ic ether** (CRAYEN), 1891, A., 560.
- Benzenylazoximeacetylenyl** (TIEMANN), 1890, A., 44.
p-nitro- (WEISE), 1890, A., 46.
- Benzenylazoximeisobutenyl** (ZIMMER), 1890, A., 254.
- Benzenylazoximebenzenyl, *m*-amido-**, and its derivatives (SCHOPFF), 1885, A., 1217.
m-nitro-, and its derivatives (SCHOPFF), 1885, A., 897, 1217.
p-nitro- (WEISE), 1890, A., 45.

AZO-COMPOUNDS—

- Benzenylazoximebenzenyl-*o*-carboxylic acid** and its salts (SCHULZ), 1885, A., 1219.
- Benzenylazoximeisobutenyl** (ZIMMER), 1890, A., 254.
- Benzenylazoximecarbinol** and its derivatives (FALCK), 1885, A., 1217.
- Benzenylazoximecarbo-*p*-toluidide** (KOCH), 1891, A., 561.
- Benzenylazoxime-ethenyl** (TIEMANN and KRUGER), 1884, A., 1326.
m-nitro- (SCHOPFF), 1885, A., 897.
p-nitro- (WEISE), 1890, A., 45.
- Benzenylazoximeethenylcarboxylic acid** (WURM), 1890, A., 258.
- Benzenylazoxime-*m*-nitrobenzenyl, *m*-nitro-** (STIEGLITZ), 1890, A., 256.
- Benzenylazoximephenylethenyl** (ZIMMER), 1890, A., 253.
- Benzenylazoximepropenyl** (ZIMMER), 1890, A., 254.
- Benzenylazoximepropenyl-*o*-carboxylic acid** and its salts (SCHULZ), 1885, A., 1219.
- Benzenylazoximesalicenyl** (ZIMMER), 1890, A., 254.
- Benzidineazo-dyes**, colouring properties of (MOHLAU), 1886, A., 947.
- Benzoylbenzeneazoacetone** (GOLDSCHMIDT and POLLAK), 1892, A., 977.
- Benzoylchlorobenzeneazocresols** (GOLDSCHMIDT and POLLAK), 1892, A., 975.
- Benzoylphenylazimethylene** (CURTIUS and THUN), 1891, A., 1357.
reactions of (CURTIUS and LANG), 1892, A., 451.
- Benzylamidobenzeneazo- α - and - β -naphthols** (MELDOLA and COSTE), 1889, T., 596.
- Benzylazimidobromobenzene** (ZINCKE and ARZBERGER), 1889, A., 502.
- Benzylidazoamidobenzene** (FRISWELL and GREEN), 1886, T., 749.
- Benzylideneamidoazobenzene** (BERJU), 1884, A., 1149.
- Benzylidene-*o*-amidoazotoluene** (GOLDSCHMIDT and ROSELL), 1890, A., 616.
- Benzylmalonic azimide** (RUHEMANN and MORRELL), 1892, T., 796.
- Benzylmethylbromobenzeneazammonium iodide** (ZINCKE and ARZBERGER), 1889, A., 502.
- Bisazobenzene** (NIETZKI and DIESTERWEG), 1888, A., 1082.
chloronitro-, chloronitronitroso-, and nitronitroso-derivatives of (WILLGERODT and MUHE), 1892, A., 455, 456.

AZO-COMPOUNDS—

- Bisazobenzene-*p*-chlorophenylhydrazine**, *tetranitronitroso-* (WILLGERODT), 1890, A., 1119; (WILLGERODT and BÖHM), 1891, A., 907.
- Bisazobenzene-phenylhydrazine**, *pentanitro-* (WILLGERODT and MÜHE), 1892, A., 456.
- Bisazo-compounds** (NIETZKI and DIESTERWEG), 1888, A., 1082.
of α -naphthol, molecular change in the formation of (NÖLTING and GRANDMOUGIN), 1891, A., 1075.
- Bisbenzeneazacetone** (v. PECHMANN and JENISCH), 1892, A., 161.
- Bis-*o*- and -*p*-diazoisolmethyl- and -ethyl-amines** (GOLDSCHMIDT and BADL), 1889, A., 774.
- m*-Bisdiazobenzene compounds** (GRIESS), 1886, A., 459.
- Bisdiazobenzene-allylamine, -ethylamine, and -methylamine** (GOLDSCHMIDT and BADL), 1889, A., 774.
- Bis-*p*-diazotolueneallylamine** (GOLDSCHMIDT and BADL), 1889, A., 775.
- Bis-*p*-diazotoluene-ethylamine** (GOLDSCHMIDT and HOLM), 1888, A., 686.
- Bis-*p*-diazotoluene-methylamine** (GOLDSCHMIDT and BADL), 1889, A., 774.
- Bisdiethylazimethylene** (CURTIUS and THUN), 1891, A., 1355.
- Bisdimethylazimethylene** (CURTIUS and THUN), 1891, A., 1355.
- Bisdiphenylazimethylene** (CURTIUS and RAUTERBERG), 1891, A., 1359.
- Bispropylmethylazimethylene** (CURTIUS and THUN), 1891, A., 1355.
- Bismethylphenylazimethylene** (CURTIUS and THUN), 1891, A., 1355.
- Bisphenylazophenol** (v. BAeyer and KOCHENDORFER), 1889, A., 1162.
- Carbamidoazobenzene**, and thio- (BERJU), 1884, A., 1149; 1885, A., 660.
- Carbanilidoamidoazobenzene**, **Carbanilidoamidoazotoluene**, **Carbanilidobenzene-*o*-*n*-naphthylamine**, **Carbanilidohydroxyazobenzene** and **Carbanilidophenolbisazobenzene** (GOLDSCHMIDT and ROSELL), 1890, A., 614.
- Carboxybenzeneazacetacetic acid** (*azacetacetibenzoic acid*) (GRIESS), 1885, A., 788.
- m*-Carboxybenzenylazoximebenzenyl** (MÜLLER), 1886, A., 808.
- Carboxybenzenylazoximepropenyl- ω -carboxylic acids, *m*- and -*p*-** (MÜLLER), 1886, A., 808.

AZO-COMPOUNDS—

- Carboxybenzenylazoxime-ethenyl, *m*- and -*p*-** (MÜLLER), 1886, A., 802.
- Carvacrolbisdiazotriphenylmethane** (MAZZARA), 1886, A., 59.
- Cinnamenylazoximebenzenyl** (WOLFF), 1886, A., 798.
- Cinnamenylazoxime-ethenyl** (WOLFF), 1886, A., 798.
- Cinnamenylazoximepropenyl- ω -carboxylic acid** (WOLFF), 1886, A., 799.
- "Cinnamiediazocetic acid"** (BUCHNER), 1888, A., 1275.
- Cinnamoylphenylazimide**, formation and reduction of (RUHRMANN), 1892, T., 282.
- Cresolbisazotoluenes, *o*- and -*p*-** (NÖLTING and WERNER), 1891, A., 212.
- ψ -Cumeneazo- ψ -cumene**. See **Azo- ψ -cumene**.
- ψ -Cumeneazocumenol** (LIEBERMANN and v. KOSTANECKI), 1884, A., 1147.
- Cumeneazo- β -naphthol-mono- and -di-sulphonic acids**, spectrum of (HARTLEY), 1887, T., 187.
- ψ -Cumeneazophenol** (GOLDSCHMIDT and BRUBACHER), 1891, A., 1210.
- ψ -Cumenediazopiperidide** (WALLACH and HEUNLER), 1888, A., 362.
- ψ -Cumeneazoresorcinol** (LIEBERMANN and v. KOSTANECKI), 1884, A., 736, 1147; (v. KOSTANECKI), 1889, A., 137.
nitroso- (v. KOSTANECKI), 1889, A., 137.
- ψ -Cumeneazoresorcinolazocumene** (LIEBERMANN and v. KOSTANECKI), 1884, A., 736.
- ψ -Cumenebisazoresorcinol** (LIEBERMANN and v. KOSTANECKI), 1884, A., 1147.
- Cumylenediazosulphide** (JACOBSON and NEY), 1889, A., 772.
- Cyanazocamphene** (TANRET), 1888, A., 720.
- Cymeneazocymene** (*azocymene*) (SCHUMOFF), 1888, A., 469.
- Dianilido-*o*-diazothiole** (HECTOR), 1889, A., 872; 1890, A., 526.
- Diazoacetamide** (CURTIUS), 1884, A., 988; 1885, A., 883.
- ψ -Diazoacetamide** (CURTIUS), 1885, A., 883.
- Diazoacetates**, ethereal, action of, on ethereal salts of unsaturated acids (BUCHNER), 1888, A., 1274.
- Diazoacetic acid**, and its salts (CURTIUS), 1885, A., 883.

AZO-COMPOUNDS—

Diazoamides, normal and mixed (MELDOLA and STREATFIELD), 1890, T., 786; P., 139.

m-**Diazoamidobenzamide** (SCHULZE), 1889, A., 778.

Diazoamidobenzene (*diazobenzeneamidine*) (FISCHER), 1884, A., 1014. preparation of (STAEDEL and BAUER), 1886, A., 943.

conditions of formation of (FRISWELL and GREEN), 1885, T., 919; P., 102.

constitution of (FRISWELL and GREEN), 1886, T., 746; P., 229.

dry decomposition of (HEUSLER), 1891, A., 555.

action of phenol on (HEUMANN and OECONOMIDES), 1887, A., 480.

action of *p*-toluidine on (GOLDSCHMIDT and BARDACH), 1892, A., 978.

relation of, to amidoazobenzene (FRISWELL and GREEN), 1885, T., 917; P., 102; 1886, T., 746; P., 229; 1887, P., 26.

Wallach's explanation of the isomeric transformation of, into amidoazobenzene (MELDOLA), 1887, P., 27.

formation of *di*amidoazobenzene and its homologues from (FRISWELL and GREEN), 1885, T., 923.

Diazoamidobenzene (*diazobenzeneanilide*), *p*-bromo-, and its methyl derivative (MELDOLA and STREATFIELD), 1889, T., 435.

tri and *hexa*-bromo- (SILBERSTEIN), 1883, A., 661.

p-bromo-*m*- and *p*-nitro- (GOLDSCHMIDT and MOLINARI), 1888, A., 1285.

ethylation and methylation of (MELDOLA and STREATFIELD), 1889, T., 420, 421.

*di*bromodinitro- (MELDOLA and STREATFIELD), 1888, T., 669.

m- and *p*-dichloro-, action of *p*-toluidine on (GOLDSCHMIDT and BARDACH), 1892, A., 978.

p-dichloro-, and its ethyl derivative (MELDOLA and STREATFIELD), 1888, T., 670.

m-nitro- (GOLDSCHMIDT and MOLINARI), 1888, A., 1285.

m-dinitro- (MELDOLA and STREATFIELD), 1887, T., 107.

p-dinitro- (MELDOLA and STREATFIELD), 1886, T., 626; 1887, T., 102.

AZO-COMPOUNDS—

Diazoamidobenzene (*diazobenzeneanilide*), *m*- and *p*-dinitro-, methylation of (MELDOLA and STREATFIELD), 1888, T., 666.

p-*m*-dinitro-, and its alkyl derivatives (MELDOLA and STREATFIELD), 1889, T., 415.

Diazoamidobenzene- β -naphthalene (*diazobenzene α naphthylamide*) *p*-bromo- (GOLDSCHMIDT and MOLINARI), 1888, A., 1284.

Diazoamidobenzene-toluene (*diazobenzene-toluidide*), *p*-bromo- and *m*-nitro- (GOLDSCHMIDT and MOLINARI), 1888, A., 1284.

Diazoamidobromo- β -phenylpropionic acid (GABRIEL), 1883, A., 195.

Diazoamido-*m*- and *p*-chlorobenzene-*p*-toluenes (*diazochlorobenzene-*p*-toluidides*) (GOLDSCHMIDT and BARDACH), 1892, A., 979.

Diazoamido-compounds (NÖLTING and BINDER), 1885, A., 385; 1888, A., 271; (MELDOLA and STREATFIELD), 1886, P., 263; 1887, T., 102, 434, 448; P., 50; 1888, T., 664; P., 63; (WALLACH), 1887, A., 137; (FISCHER and WIMMER), 1887, A., 819; (GOLDSCHMIDT and MOLINARI), 1888, A., 1283; (GOLDSCHMIDT and BADL), 1889, A., 774; (GOLDSCHMIDT and BARDACH), 1892, A., 977.

constitution of (MELDOLA and STREATFIELD), 1887, T., 434, 448; P., 50; (MELDOLA), 1887, A., 818. cryoscopic experiments with (GOLDSCHMIDT), 1891, A., 1211.

dry decomposition of (HEUSLER), 1891, A., 555.

action of acetic anhydride on (HEUSLER), 1892, A., 458.

action of aniline hydrochloride on (GOLDSCHMIDT and BARDACH), 1892, A., 979.

action of phenol on (HEUMANN and OECONOMIDES), 1887, A., 664.

conversion of, into azoamido-compounds (GOLDSCHMIDT and BARDACH), 1892, A., 977.

ethylene derivatives of (MELDOLA and STREATFIELD), 1892, P., 119.

of ethyl-*p*-toluidine (GASTIGER), 1885, A., 381.

of the paraffin series (CURTIUS), 1884, A., 987.

mixed, new method of determining the constitution of (GOLDSCHMIDT and HOLM), 1888, A., 685.

AZO-COMPOUNDS—

Diazoamido-compounds, mixed, synthesis of alkyl heterogeneous (MELDOLA), 1889, T., 610; P., 127.

isomerism of the alkyl derivatives of (MELDOLA and STREATFEILD), 1889, T., 412; P., 98.

nitrated (NIEMENTOWSKI), 1890, A., 39.

dinitro-, decomposition of, by cold hydrochloric acid (MELDOLA and STREATFEILD), 1887, T., 486.

Diazoamido- ψ -cumene, action of p -toluidine on (GOLDSCHMIDT and BARDACH), 1892, A., 978.

Diazoamido- ψ -cumene- p -toluene (GOLDSCHMIDT and BARDACH), 1892, A., 979.

Diazoamidodiphenylmethane (MANNS), 1889, A., 261.

Diazoamidonitrobenzene (NIEMENTOWSKI), 1890, A., 39.

Diazoamidonitrotoluene (NIEMENTOWSKI), 1890, A., 39.

Diazoamido- o -toluene (*diazotoluene-toluidide*) (FISCHER and WIMMER), 1887, A., 819; (HEUSLER), 1892, A., 459.

Diazoamido-xylene (*diazoxylenezylidide*) (FISCHER and WIMMER), 1887, A., 819.

o -Diazoazotoluene (*diazotolueneazotoluene*), action of α - and β -naphthols and β -naphthylamine on (ZINCKE and LAWSON), 1887, A., 731.

derivatives of (ZINCKE and LAWSON), 1886, A., 795.

p -Diazoazotoluene salts (ZINCKE and LAWSON), 1887, A., 732.

p -Diazoazotolueneimide (ZINCKE and LAWSON), 1887, A., 732.

o -Diazoazaldehyde (ELLASBERG and FRIEDLÄNDER), 1892, A., 1106.

Diazobenzene (SANDMEYER), 1890, A., 1115.

action of, on acetonedicarboxylic acid (v. PECHMANN and JENISCH), 1892, A., 161.

action of phenol on (HIRSCH), 1891, A., 437.

acid salts of, action of alkalis on (CURTIUS), 1891, A., 55.

salts, action of stannous chloride on (CULMANN and GASTOROWSKI), 1889, A., 1156.

perbromide (SAUNDERS), 1892, A., 316.

AZO-COMPOUNDS—

Diazobenzene chloride, action of acetone on (BAMBERGER and WULZ), 1891, A., 1450.

action of benzaldoxime on (MAI), 1892, A., 163.

action of hydroxylamine on (MAI), 1892, A., 710.

action of sodium thiosulphate on (PURGOTTI), 1890, A., 1419.

reaction of (ODDO), 1891, A., 553.

nitrate, action of potassium ferrocyanide on (LOCHER), 1888, A., 589.

stannochloride (GRIESS), 1885, A., 789.

sulphates, o - and m - (REMSEN and GRAHAM), 1889, A., 975.

Diazobenzene, amido- (GRIESS), 1884, A., 1148.

tribromo-, nitrate and other salts of (SILBERSTEIN), 1888, A., 660.

Diazobenzeneamidocarbazole (ZATTI and FERRATINI), 1892, A., 617.

Diazobenzeneanilide. See **Diazoamidobenzene**.

Diazobenzeneazobenzene, combination of, with aniline (NIETZKI and DIESTERWEG), 1888, A., 1082.

Diazobenzeneazobenzene-mono- and -di-sulphonic acids (GRIESS), 1883, A., 182.

Diazobenzenebenzamidine (PINNEN), 1889, A., 1005.

Diazobenzenebenzylamide (GOLDSCHMIDT and HOLM), 1888, A., 685.

Diazobenzenebenzylanilide (FRISWELL and GREEN), 1886, T., 749.

Diazobenzene- p -bromodiphenylcarbamide (GOLDSCHMIDT and MOLINARI), 1888, A., 1284.

Diazobenzene- p -bromophenyl- p -tolylcarbamide (GOLDSCHMIDT and MOLINARI), 1888, A., 1284.

Diazobenzeneacetylamide (GOLDSCHMIDT and GESSNER), 1889, A., 773.

Diazobenzenediphenylcarbamide (GOLDSCHMIDT and MOLINARI), 1888, A., 1283.

Diazobenzene- p -ditolylcarbamide (GOLDSCHMIDT and MOLINARI), 1888, A., 1284.

Diazobenzene-ethyl- β -tetrahydronaphthylamide (BAMBERGER and MÜLLER), 1889, A., 889.

Diazobenzene-ethyl- p -toluidide (NÖLTING and BINDER), 1888, A., 273.

AZO-COMPOUNDS—

- Diazobenzeneglyoxaline** (RUNG and BEHREND), 1892, A., 1493.
- Diazobenzenesulphonic acid**, action of stannous chloride on (CULMANN and GASIOROWSKI), 1889, A., 1157.
- tribromo-** (SILBERSTEIN), 1883, A., 661.
- p-nitro-** (CULMANN and GASIOROWSKI), 1889, A., 1157.
- Diazobenzenemethylanilide** (FRISWELL and GREEN), 1886, T., 748; (NÖLTING and BINDER), 1888, A., 273.
- Diazobenzene-*o*- and *p*-methylbenzylamides** (KRÖBER), 1890, A., 969.
- Diazobenzenenaphthylamide**, *p*-bromo- (GOLDSCHMIDT and MOLINARI), 1888, A., 1284.
- Diazobenzene- β -naphthylamine**. See Benzeneazo- β -naphthylamine.
- Diazobenzene- β -naphthylphenylcarbamide** (GOLDSCHMIDT and MOLINARI), 1888, A., 1284.
- Diazobenzene-*m*- and *p*-nitrodi-phenylcarbamide**, *m*- and *p*-bromo- (GOLDSCHMIDT and MOLINARI), 1888, A., 1285.
- Diazobenzene-*m*-nitrophenylcarbamide** (GOLDSCHMIDT and MOLINARI), 1888, A., 1285.
- Diazobenzenenitrosodimethylaniline** (FISCHER and WACKER), 1889, A., 702.
- Diazobenzenephenyl-*p*-tolylcarbamide** (GOLDSCHMIDT and MOLINARI), 1888, A., 1283.
- Diazobenzenepiperazine** (SCHMIDT and WICHMANN), 1892, A., 211.
- Diazobenzenepiperidide** (NÖLTING and BINDER), 1888, A., 273.
- p*-Diazobenzenesulphonic acid**, action of, on primary amido-compounds, and on isomeric toluidines (GRIESS), 1883, A., 181.
- behaviour of aldehyde, glucose, peptone, albuminous bodies, and acetone towards (PETRI), 1884, A., 1322.
- o*-nitro-** (NITZKI and LERCH), 1889, A., 144.
- Diazobenzene- α -tetrahydronaphthylamide** (BAMBERGER and BAMMANN), 1889, A., 784.
- Diazobenzenetetrahydroquinolide** (NÖLTING and BINDER), 1888, A., 273.
- Diazobenzenetoluidide**, *p*-bromo- and *m*-nitro- (GOLDSCHMIDT and MOLINARI), 1888, A., 1284.

AZO-COMPOUNDS—

- Diazobenzene-*p*-tolylphenylcarbamide** (GOLDSCHMIDT and MOLINARI), 1888, A., 1284.
- 4-Diazobenzidine-2,2'-disulphonic acid**, 4'-amido- (LIMPRICHT), 1891, A., 929.
- Diazobenzimide**, *m*-amido-, and its derivatives (GRIESS), 1885, A., 789.
- 6-Diazobenzoic acid**, 3-amido-, and its derivatives (GRIESS), 1884, A., 1148.
- Diazobenzoic acids**, action of alcohols on (GRIESS), 1888, A., 588.
- Diazobenzylamidobenzene**, *m*- and *p*-dinitro- (MELDOLA and STREATFIELD), 1887, T., 112, 113.
- Diazodibromobenzene sulphate** (HEINICHEN), 1890, A., 165.
- Diazo-*p*-bromobenzenemethyl-*p*-toluidide**, combination of diazo- β -naphthalenemethyl-*p*-toluidide, and of diazo-*m*-nitrobenzenemethyl-*p*-toluidide with (MELDOLA and STREATFIELD), 1890, T., 793, 797.
- Diazoisobutylbenzene**, action of stannous chloride on (CULMANN and GASIOROWSKI), 1889, A., 1157.
- o*-Diazocinnamic acid**, hydrochloride and nitrate of (FISCHER and KUZEL), 1884, A., 441.
- p*-Diazocinnamic acid**, decomposition of (GABRIEL), 1883, A., 196.
- Diazo-compounds** (GRIESS), 1883, A., 180, 1102; 1884, A., 1148; 1885, A., 788; 1887, A., 817; 1888, A., 588, 826; (WALLACH), 1883, A., 584; 1887, A., 40, 137.
- constitution of (MELDOLA and STREATFIELD), 1888, T., 664; P., 63.
- thermochemistry of (VIGNON), 1888, A., 774.
- molecular weights of (GOLDSCHMIDT), 1891, A., 193.
- action of alcohol on (HALLER), 1884, A., 1822; (REMSEN), 1885, A., 525.
- action of finely divided copper on (GATTERMANN, HAUSKNECHT, CANTZLER and EHRHARDT), 1890, A., 970.
- action of, on hydroxybenzoic acids (ZIBELL), 1891, A., 1473.
- action of oximes on (MAI), 1892, A., 163, 1079.
- application of, to the detection of organic matter in water (GRIESS), 1888, A., 993.

AZO-COMPOUNDS—

- Diazo-compounds**, decomposition of (REMSEN and ORNDORFF), 1888, A., 268; (REMSEN and GRAHAM), 1889, A., 975.
- decomposition of, by alcohol (v. HOFMANN), 1884, A., 1315; (v. WROBLEWSKI), 1885, A., 257; (REMSEN and PALMER), 1887, A., 136.
- decomposition of some, by formic and acetic acids (ORNDORFF), 1889, A., 45.
- double decompositions of (ODDO), 1891, A., 554.
- velocity of decomposition of, by water (MULLER and HAÜSSER), 1892, A., 768.
- stability of, in aqueous solution (HIRSCH), 1891, A., 554.
- synthesis by means of (HIRSCH), 1891, A., 437; 1892, A., 1198.
- chlorides of, action of stannous salts on the (GASIOROWSKI and WATJES), 1885, A., 525.
- mixed (GOLDSCHMIDT and HOLM), 1888, A., 685.
- of the aromatic series (ODDO), 1891, A., 553.
- of *s-tri*bromaniline (SILBERSTEIN), 1883, A., 660.
- of the fatty series (CURTIUS), 1884, A., 987; 1885, A., 883.
- constitution of (CURTIUS), 1889, A., 586; 1891, A., 39.
- of the thiazole series (WOHMANN), 1891, A., 225.
- Diazo-*m*- and -*p*-chlorobenzene-*p*-toluidides** (GOLDSCHMIDT and BAR-DACH), 1892, A., 979.
- Diazoecresol compounds** (NÜLTING and KOHN), 1884, A., 900.
- Diazo- α -cymenesulphonic acid** (ERRERA), 1891, A., 1067.
- Diazo-deoxybenzoin chloride** (NEY), 1888, A., 1197.
- o*-Diazodibenzylamine** (LELLMANN and ARNOLD), 1892, A., 890.
- Diazodiphenylamine sulphate** (IKUTA), 1888, A., 467.
- Diazoethylamidobenzene, *m*-*d*initro-** (MELDOLA and STREATFIELD), 1887, T., 108.
- p*-*d*initro-** (MELDOLA and STREATFIELD), 1887, T., 630.
- Diazoethylresorcinol chloride** (PUKALL), 1887, A., 661.
- Diazo-group**, introduction of, into so-called aromatic para-compounds (GRIESS), 1884, A., 1013.

AZO-COMPOUNDS—

- Diazoguanidine salts** (THIELE), 1892, A., 1298.
- Diazohippurylamide** (CURTIUS), 1892, A., 113.
- Diazo-hydrocarbons**, action of stannous chloride on salts of (CULMANN and GASIOROWSKI), 1889, A., 1156.
- Diazo-hydroxyquinaldine anhydride** (CONRAD and LIMPACH), 1888, A., 1110.
- Diazoimido-hydrocarbons**, some reactions of (CULMANN and GASIOROWSKI), 1889, A., 1156.
- Diazomethylamidobenzenesulphonic acid**, sodium salt of (BERTHSEN and GOSKE), 1887, A., 666.
- Diazomethyluracil derivatives** (BEHREND), 1888, A., 809.
- β -Diazonaphthalene nitrate**, decomposition of, with alcohol (ORNDORFF and KORTWRIGHT), 1891, A., 1073.
- sulphate, action of stannous chloride on (CULMANN and GASIOROWSKI), 1889, A., 1157.
- β -Diazonaphthalenebenzylamide** (GOLDSCHMIDT and HOLM), 1888, A., 685.
- β -Diazonaphthalene-*p*-bromodiphenylcarbamide** (GOLDSCHMIDT and MOLINARI), 1888, A., 1285.
- Diazonaphthaleneimide** (FISCHER), 1886, A., 555.
- Diazo- β -naphthalenemethyl-*p*-toluidide**, combination of, with diazo-*p*-bromobenzenemethyl-*p*-toluidide (MELDOLA and STREATFIELD), 1890, T., 797.
- sulphates, decomposition of, with alcohol (ORNDORFF and KORTWRIGHT), 1891, A., 1073.
- β -Diazonaphthalene- β -naphthylamine and its derivatives** (LAWSON), 1885, A., 1288.
- Diazonaphthalenes**, nitro-, salts of, decomposition of, with alcohol (ORNDORFF and CAUFFMAN), 1892, A., 622.
- Diazonaphthalenesulphonic acid** (FORSLING), 1887, A., 375, 963.
- Diazonaphthalenesulphonic acid[1:2-]** (CLEVE), 1892, A., 345.
- Diazonaphthalenesulphonic acids δ - and γ -** (CLEVE), 1889, A., 155.
- $\alpha\alpha$ -Diazonaphthalenesulphonic acids**, isomeric (ERDMANN), 1889, A., 156.
- Diazonaphtholsulphonic acid** (SEIDEL), 1892, A., 721.

AZO-COMPOUNDS—

- Diazonitrobenzene chlorides**, decomposition of, by hydrochloric acid (MELDOLA and STREATFEILD), 1887, T., 106.
- Diazo-*m*- and -*p*-nitrobenzene-ethyl-*p*-toluidides** (NOLTING and BINDER), 1888, A., 273.
- Diazo-*m*-nitrobenzenemethyl-*p*-toluidide**, combination of, with diazo-*p*-bromobenzenemethyl-*p*-toluidide (MELDOLA and STREATFEILD), 1890, T., 793.
- m*-Diazo-*p*-nitrobenzenesulphonic acid** (EGGER), 1889, A., 708.
- Diazonitro- ψ -cumesulphonic acid** (MAYER), 1887, A., 953.
- Diazoisonitrosomethyluracil** (BEHREND), 1888, A., 809.
- p*-Diazonitroso-oxindole chloride** (MEYER), 1886, A., 64.
- m*-Diazophenetol and its derivatives** (WAGNER), 1885, A., 1212.
- p*-Diazophenol, *di*-*m*-bromo-** (SILBERSTEIN), 1883, A., 660.
- m*-nitro-** (HAHLE), 1891, A., 431.
- Diazophenols**, compounds from β -naphthylamine and (SACHS), 1886, A., 235.
- Diazophenolsulphonic acid**, chloro- (KALLREPP), 1886, A., 1019.
- tri*-chloro-** (LAMPERT), 1886, A., 617.
- Diazo-reaction** (GATTERMANN, HAUSKNECHT, CANTZLER, and EHRHARDT), 1890, A., 971.
- Diazoresorcinol and its derivatives** (BRUNNER and KRAEMER), 1884, A., 1333; (EHRlich), 1888, A., 145; (NIETZKI, DIETZE, and MAECKLER), 1890, A., 156.
- Diazoresorufin and its derivatives** (FEVRE), 1883, A., 733; (BRUNNER and KRAEMER), 1884, A., 1333; (EHRlich), 1888, A., 145; (NIETZKI, DIETZE, and MAECKLER), 1890, A., 156.
- Diazo-salt-group and a phenol-residue**, intramolecular transformation between (LELLMANN and BOYE), 1890, A., 1116.
- Diazo-salts**, anhydrous, preparation of (KNOEVENAGEL), 1891, A., 54.
- of amido-3'-hydroxyquinoline**, action of, on phenols and tertiary bases (RIEMERSCHMIED), 1883, A., 1148.
- Diazosuccinic acid and its derivatives** (CURTIUS and KOCH), 1885, A., 885; 1887, A., 33; 1889, A., 376.
- p*-Diazo-*o*-sulphobenzoic acid** (HEDRIK), 1888, A., 280.

AZO-COMPOUNDS—

- Diazosulphonic acids**, improvement in Sandmeyer's reaction with (TOBIAS), 1890, A., 1149.
- Diazothiazole hydrate** (NAR), 1891, A., 1515.
- Diazothio-dimethyl- and -diethyl-anilines** (BERNTSEN), 1889, A., 775.
- Diazotised-*p*-bromaniline**, action of, on methyl- and ethyl-*m*- and -*p*-nitranilines (MELDOLA and STREATFEILD), 1889, T., 419, 423; P., 98.
- action of, on methyl-*p*-toluidine** (MELDOLA and STREATFEILD), 1889, T., 432; P., 98.
- p*-chloraniline**, action of, on methyl-*p*-toluidine (MELDOLA and STREATFEILD), 1889, T., 436; P., 98.
- m*-nitraniline**, action of, on methyl- and ethyl-*p*-bromanilines (MELDOLA and STREATFEILD), 1889, T., 425, 423; P., 98.
- action of, on *p*-nitraniline** (MELDOLA and STREATFEILD), 1887, T., 102.
- m*- and -*p*-nitranilines**, action of, on monamines (MELDOLA), 1883, T., 428, 440; 1884, T., 107, 112, 118.
- p*-nitraniline**, action of, on methyl- and ethyl-*p*-bromanilines (MELDOLA and STREATFEILD), 1889, T., 418; P., 98.
- Diazotoluene, *o*- and -*p*,** action of sodium sulphide on (PURGOTTI), 1890, A., 1420.
- o*-Diazotoluene salts**, action of stannous chloride on (CULMANN and GASIOROWSKI), 1889, A., 1156.
- p*-Diazotoluene chloride**, action of hydroxylamine on (MAI), 1892, A., 710.
- Diazotolueneazotoluene.** See Diazotoluene.
- Diazotoluenebenzylamide, *o*- and -*p*-** (GOLDSCHMIDT and HOLM), 1888, A., 685.
- p*-Diazotoluene-*p*-bromodiphenylcarbamide** (GOLDSCHMIDT and MOLINARI), 1888, A., 1284.
- p*-Diazotolueneecumylamide** (GOLDSCHMIDT and GESSNER), 1889, A., 773.
- p*-Diazotoluenedimethylamide** (GOLDSCHMIDT and BADL), 1889, A., 774.
- Diazotoluenedisulphonates** (HASSE), 1886, A., 150.
- p*-Diazotoluene-*p*-ditolylcarbamide** (GOLDSCHMIDT and MOLINARI), 1888, A., 1284.

AZO-COMPOUNDS—

- p*-Diazotoluene- β -naphthylphenylcarbamide (GOLDSCHMIDT and MOLINARI), 1888, A., 1284.
- p*-Diazotoluene-*m*-nitrodiphenylcarbamide (GOLDSCHMIDT and MOLINARI), 1888, A., 1285.
- p*-Diazotoluenepheryl-*p*-tolylearbamide (GOLDSCHMIDT and MOLINARI), 1888, A., 1284.
- Diazotoluenetoluidide (*diazotoluenetoluene*) (FISCHER and WIMMER), 1887, A., 819.
- p*-Diazotolylene-*o*-sulphonic acid (REMSSEN and PALMER), 1887, A., 136.
- p*-Diazotolyethylanilide (NÖLTING and BINDER), 1888, A., 272.
- Diazo-*p*-tolylethyl-*p*-toluidide (NÖLTING and BINDER), 1888, A., 273.
- m*-Diazotriazamidobenzene (GRIESS), 1888, A., 827.
- p*-Diazotriazobenzene (GRIESS), 1888, A., 826.
- Diazotriazobenzenesulphonic acid (LIMPRICHT), 1889, A., 398.
- m*-Diazotriazobenzoic acid (GRIESS), 1888, A., 827.
- b*-Diazo- α -truxillic acid (HOMANS, STELTZNER and SUKOW), 1891, A., 1496.
- Diazouracil (BEHREND and ERNERT), 1890, A., 1241.
- Diazouracilcarboxylic acid (BEHREND and ERNERT), 1890, A., 1240.
- Diazovinylamine (BUCHNER and CURTIUS), 1886, A., 635.
- Diazoxybenzoic acid (GRIESS), 1887, A., 485.
- Diazoxylenesulphonic acids (NÖLTING and KOHN), 1886, A., 356; 1889, A., 611.
- Diazoxylenexylidide (*diazotoluenexylidene*) (FISCHER and WIMMER), 1887, A., 819.
- Dibenzenyldiazosulphime (V. HOFMANN and GABRIEL), 1892, A., 1109.
- Dibenzenyldiazoximeoxalene (WURM), 1890, A., 259.
- Diethylresorcinol-*o*- and -*p*-azoresorcinols (PUKALL), 1887, A., 662.
- Dihydroxydiphenyldimethyldiazobenzophenylmethane (MAZZARA), 1885, A., 904.
- Dimethylamidoazobenzene (*benzeneazodimethylaniline*) (BERJU), 1884, A., 1149.
- as an indicator in alkalimetry (FISCHER and PHILIPP), 1885, A., 1159.

AZO-COMPOUNDS—

- Dimethylamidoazobenzene (*benzeneazodimethylaniline*), *p*-bromo- (GOLDSCHMIDT and BARDAU), 1892, A., 980.
- nitro-derivatives of (NÖLTING), 1888, A., 270.
- Dimethylamidoazobenzenesulphonic acid (NÖLTING and BAUMANN), 1885, A., 385.
- Dimethylamidoazotribromobenzene (*benzeneazodimethylaniline, tribromo-*) (SILBERSTEIN), 1888, A., 661.
- Dimethylamidobenzeneazobenzenesulphonic acid (MÖHLAU), 1884, A., 1149.
- spectrum of (HARTLEY), 1887, T., 192.
- Dimethylamidobenzeneazodimethylaniline (NÖLTING and KOHN), 1885, A., 386; (BARBIER and VIGNON), 1888, A., 54.
- Dimethylamidobenzene- α -azonaphthalene (BISCHOFF), 1890, A., 1148.
- Dimethylamidobenzeneazotoluene, and its sulphonic acid (MÖHLAU), 1884, A., 1150.
- Dimethylanilineazobenzylpiperidine (LELLMANN and PEKRUN), 1891, A., 89.
- Dimethylazethane (CURTIUS and THUN), 1891, A., 1356.
- Dimethylazobenzene, tetranitro- (MERTENS), 1886, A., 1022.
- Dimethylbromobenzeneazammonium compounds (ZINCKE and ARZBERGER), 1889, A., 502.
- Dimethyltrichlorobromobenzeneazammonium iodide (ZINCKE and ARZBERGER), 1889, A., 502.
- Dimethylethylazimethylene (CURTIUS and THUN), 1891, A., 1355.
- Dimethylhexylazimethylene (CURTIUS and THUN), 1891, A., 1355.
- Diphenylazocarsacrol (MAZZARA), 1885, A., 1132.
- Diphenyl-*p*-azophenylene (V. BANDROWSKI), 1886, A., 1023; 1888, A., 269, 1081.
- Diphenylazothymol, constitution of (MAZZARA), 1885, A., 1131.
- Diphenylbisazonaphtharesorcinol (V. KONTANEKI), 1890, A., 261.
- Diphenyldiisindoleazobenzenesulphonic acid (MÖHLAU), 1883, A., 343.
- Diphenyldiisindoleazotribromobenzene hydrochloride (MÖHLAU), 1883, A., 342.
- Diphenyldiisindoleazotribromophenol (MÖHLAU), 1883, A., 342.

AZO-COMPOUNDS—

- Diphenyldimethylazimethylene** (CURTIUS and RAUTERBERG), 1891, A., 1359.
- Diphenylenebisazodimethylaniline** (REULAND), 1890, A., 167.
- Diphenylenebisazo- β -naphthol** (REULAND), 1890, A., 167.
- Diphenylenebisazoresorcinol** (REULAND), 1890, A., 167.
- p*-Diphenylhydrazohexamethylene** (v. BAEYER and NOYES), 1889, A., 1148.
- Diphenylmethylcinnamaldazimethylene** (CURTIUS and RAUTERBERG), 1891, A., 1360.
- Diphenylnaphthaleneazammonium hydroxide** and its salts (ZINCKE and LAWSON), 1887, A., 731.
- Diphenylpyrazoloneazobenzene** (KNORR and KLOTZ), 1887, A., 1121.
- Di-*o*- and -*p*-tolylidiamido-*o*-diazothioles** and their derivatives (HECTOR), 1890, A., 527.
- p*-Ditriazobenzene** (GRIESS), 1888, A., 826.
- m*-Ditriazobenzoic acid** (GRIESS), 1888, A., 827.
- m*-Dixylidiamido-*o*-diazothiole** (HECTOR), 1890, A., 528.
- Ethenylazoximebenzenyl** (NORDMANN), 1885, A., 239.
- Ethoxyazobenzene** (*benzeneazophenol*), base from (NÖLTING and WERNER), 1891, A., 211.
- p*-Ethoxyazobenzene**, preparation, nature, and reduction of (JACOBSEN and FISCHER), 1892, A., 839.
- Ethoxyazobenzenesulphonic acid** (*benzeneazophenolsulphonic acid*) (FEER and MÜLLER), 1889, A., 258.
- Ethylamidoazobenzenesulphonic acid** (*benzeneazoxythylanilinesulphonic acid*), sodium salt of (BERNSTEIN and GOSKE), 1887, A., 666.
- Ethylazimidobenzene** (HEMPER), 1890, A., 612.
- Ethylazimidotoluene** (NÖLTING and ABT), 1888, A., 273.
- Ethyl azobenzene- α -methylphenylpyrroline- β -carboxylate** (PAAL and SCHNEIDER), 1887, A., 274.
- azopyromellitate** (NEF), 1886, A., 64; 1887, A., 257; 1888, T., 443.
- azoxypropionate** (CURTIUS and KOCH), 1889, A., 376.
- benzeneazocamphocarboxylate** (HALLER), 1892, A., 1344.

AZO-COMPOUNDS—

- Ethyl azobenzene- Δ^1 - Δ^2 and - Δ^2 - Δ^5 dihydroterephthalates** (v. BAEYER and v. BRUNING), 1891, A., 1487.
- benzenediazoterephthalate** (v. BAEYER and BRUNING), 1891, A., 1487.
- benzenylazoximemethenylcarboxylate** (WURM), 1890, A., 259.
- cinnamic diazoacetate** (BUCHNER), 1888, A., 1275.
- diazoacetate and its derivatives** (CURTIUS), 1884, A., 987.
- constitution of** (CURTIUS), 1889, A., 586.
- action of, on aromatic hydrocarbons** (BUCHNER and CURTIUS), 1885, A., 1207.
- diazobenzoate** (CURTIUS), 1891, A., 55.
- diazosuccinamate and diazosuccinates** (CURTIUS and KOCH), 1885, A., 885.
- diphenylazimethylenedicarboxylate** (CURTIUS and LANG), 1892, A., 453.
- methylthiazolecarboxylate diazohydrate** (WOHMANN), 1891, A., 225.
- β -naphtholazophenyllutidinedicarboxylate** (LEPETIT), 1887, A., 1053.
- α -naphthylazoacetate** (ODDO), 1891, A., 1381; 1892, A., 367.
- phenylazo-acetyl- and -benzoylpyruvates** (BEYER and CLAISEN), 1888, A., 829.
- phenyl- β -azocrotonate** (BENDER), 1888, A., 53; (NEF), 1892, A., 143.
- triazacetate** (CURTIUS and LANG), 1889, A., 370.
- Ethylpyrrolineazo- β -naphthalene** (FISCHER and HEPP), 1886, A., 1042.
- Ethylpyrrolineazo-*p*-toluene** (FISCHER and HEPP), 1886, A., 1042.
- Ethylpyrrolinediazo-*p*-toluene** (FISCHER and HEPP), 1886, A., 1042.
- Glutarediazoximediethenyl** (BIEDERMANN), 1890, A., 126.
- p*-Hexazobenzene** (GRIESS), 1888, A., 826.
- Hexazobenzoic acid** (GRIESS), 1888, A., 827.
- Hexazoxybenzene** (JANOVSKY and ERB), 1887, A., 479; (JANOVSKY), 1887, A., 664; (WILLGERODT), 1890, A., 1117.
- Homobenzenyl-**. See Tolenyl-.

AZO-COMPOUNDS—

- Homo-*o*-phthalethylimidoazobenzene** (PULVERMACHER), 1887, A., 1111.
- Homo-*o*-phthalimidazobenzene** (GABRIEL), 1887, A., 726.
- Homoterephthalenediazoximedi-benz-** (ROSENTHAL), 1890, A., 147.
- Homoterephthalenediazoximedieth-** (ROSENTHAL), 1890, A., 147.
- Hydroxyazobenzene** (*benzeneazophenol*), action of phosphoric chloride on (HEUMANN and PAGANINI), 1891, A., 301.
- m*-**nitro-** (KLINGER and FITSCHKE), 1886, A., 53.
- Hydroxy-*p*-azobenzenesulphonic acid**, salts of (LIMPRICHT), 1891, A., 1037.
- Hydroxyazo-compounds** (MEYER and KREIS), 1883, A., 982; (FISCHER and WIMMER), 1887, A., 819; (GOLDSCHMIDT and ROSEIL), 1890, A., 614; (GOLDSCHMIDT and BRUBACHER), 1891, A., 1209.
- o*-**Hydroxyazo-dyes**. See under Colouring matters.
- 3-Hydroxy-4-azo-1-methylquinoline** (NÖLTING and TRAUTMANN), 1891, A., 328.
- Hydroxyazotoluidine** and its salts (LIMPRICHT), 1885, A., 975; (GRAEFF), 1885, A., 1128.
- m*-**Hydroxybenzenylazoximebenzenyl** (SCHÖPF), 1885, A., 1217.
- p*-**Hydroxybenzenylazoximebenzenyl** (KRONE), 1891, A., 700.
- m*-**Hydroxybenzenylazoxime-ethenyl** (CLEMM), 1891, A., 700.
- p*-**Hydroxybenzenylazoxime-ethenyl** (KRONE), 1891, A., 700.
- m*-**Hydroxybenzenylazoximeprop-enyl- ω -carboxylic acid** (CLEMM), 1891, A., 699.
- p*-**Hydroxybenzenylazoximeprop-enyl- ω -carboxylic acid** (KRONE), 1891, A., 700.
- p*-**Hydroxy-*o*-tolenylazoximebenzenyl** (PASCHEN), 1892, A., 320.
- p*-**Hydroxy-*m*-tolenylazoximebenzenyl** (GOLDBECK), 1892, A., 319.
- o*-**Hydroxy-*p*-tolenylazoxime-ethenyl** (GOLDBECK), 1892, A., 319.
- p*-**Hydroxy-*o*-tolenylazoxime-ethenyl** (PASCHEN), 1892, A., 321.
- p*-**Hydroxytolenylazoximepropenyl- ω -carboxylic acid** (GOLDBECK), 1892, A., 319.
- Ketazodiphenyl ketone** (CURTIUS), 1889, A., 1157.
- Leucazocamphene** (TANRET), 1888, A., 720.

AZO-COMPOUNDS—

- Levulinicphenylhydrazoneazobenzene** (VOLHARD), 1892, A., 436.
- Methaneazobenzene**, iodonitro- (RUS-SANOFF), 1892, A., 1416.
- Methaneazobenzoic acid**, nitro- (GRIESS), 1885, A., 788.
- Methoxybenzenylazoximebenzenyl**, *o*- and *p*- (MILLER), 1889, A., 254.
- p*-**Methoxybenzenylazoxime-ethenyl** (MILLER), 1889, A., 254.
- p*-**Methoxybenzenylazoximeprop-enyl- ω -carboxylic acid** (MILLER), 1889, A., 255.
- o*-**Methoxycinnamic acid diazo-chloride** (SCHNELL), 1887, A., 140.
- p*-**Methoxydiazobenzenesulphonic acid** (ALTSCHUL), 1892, A., 1081.
- Methylamidoazobenzene** (*benzenesomethylaminide*) and its acetyl derivative (BERNU), 1884, A., 1149.
- Methylamidoazobenzenesulphonic acid**, sodium salt of (BERNTHSEN and GOSKE), 1887, A., 666.
- Methylazimidothiazolecarboxylic acid** (WOHMANN), 1891, A., 226.
- Methyltrichlorobromazimidobenzene** (ZINCKE and ARZBERGER), 1889, A., 502.
- Methyldiazoamidobenzene** (*diazobenzenemethylamido*) (FRISWELL and GREEN), 1886, T., 748.
- Methylic acetylenedicarboxylodiaz-acetate** (BUCHNER), 1889, A., 694.
- benzeneazocyanacetate** (HALLER), 1888, A., 824.
- benzeneazodinitrophenylacetate** (MEYER), 1888, A., 693.
- azomethylenecarboxylate** (CURTIUS and LANG), 1892, A., 452.
- toluenecazocyanacetates**, 1:2- and 1:4- (HALLER), 1888, A., 824.
- benzeneazocamphocarboxylate** (HALLER), 1892, A., 1344.
- diazacetate**, action of, on the ethereal salts of unsaturated acids (BUCHNER), 1889, A., 694; 1890, A., 736.
- α -diazopropionate** (CURTIUS and LANG), 1892, A., 452.
- diazosuccinamate** (CURTIUS and KOCH), 1887, A., 34.
- fumaric diazoacetate** (BUCHNER), 1888, A., 1274.
- 2'-Methylindoleazobenzene** (WAGNER), 1888, A., 284.
- Methyl-*o*-nitro-*p*-diazobenzene chloride**, nitroso- (*p*-**diazotoluenechloride**, *o*-**nitro- ω -nitroso-**) (MEYER), 1886 A., 63.

AZO-COMPOUNDS—

- Methyl*d*-nitrophenylacetateazobenzenesulphonic acid, sodium salt of (HAUSSKNECHT), 1889, A., 507.
- Methyl*d*-nitrophenylacetateazonaphthalene (HAUSSKNECHT), 1889, A., 506.
- Methyl*d*-nitrophenylacetateazotoluene (HAUSSKNECHT), 1889, A., 506.
- Methyl*d*-nitrophenylacetateazoxylene (HAUSSKNECHT), 1889, A., 506.
- Methylpyrrolinebisazobenzene (FISCHER and HEPP), 1886, A., 1041.
- Methyltetrahydroquinoline-1-and-3-azobenzenesulphonic acids, 1- and 3- (BAMBERGER and WULZ), 1891, A., 1254.
- Methyl-*p*-toluidine-*o*-azobenzene-sulphonic acid (BAMBERGER and WULZ), 1891, A., 1203.
- α -Naphthaleneazooacetic acid (ODDO), 1891, A., 1382.
- Naphthaleneazooacetoacetic acids, α - and β - (ODDO), 1891, A., 1381.
- α -Naphthaleneazooacetone (ODDO), 1891, A., 1382.
- 1:2:2'- β -Naphthaleneazodihydroxynaphthalene (CLAUSIUS), 1890, A., 628.
- α -Naphthaleneazo- α -hydroxynaphthoic acid (BISCHOFF), 1890, A., 1148.
- β -Naphthaleneazo-*o*- and -*p*-hydroxyquinolines (MATHEUS), 1888, A., 851, 852.
- Naphthaleneazonaphthalene. See Azonaphthalene.
- Naphthaleneazo- β -naphthylanilines, α - and β - (MATTHES), 1890, A., 998.
- Naphthaleneazophenylenediamineazotoluene (GRIENS), 1888, A., 1108.
- Naphthaleneazosalicylic acids (GEBEL), 1889, A., 780.
- Naphthalenebisazobenzenes, α - and β - (NIETZKI and DIESTERWEG), 1888, A., 1083.
- α -Naphthalenebisazobenzene (KROHN), 1889, A., 152.
- β -Naphthylazoximeacetylenyl (RICHTER), 1890, A., 63.
- β -Naphthylazoximebenzenyl (RICHTER), 1890, A., 62.
- Naphthylazoxime-ethenyls, α - and β - (EKSTRAND), 1887, A., 373.
- β -Naphthylazoximenaphthyl (EKSTRAND), 1887, A., 374.
- Naphtholazobenzenes (DENARO), 1886, A., 246.
- derivatives of (MARGARY), 1884, A., 326; 1885, A., 546.

AZO-COMPOUNDS—

- Naphthol-*p*-azobenzeneazodimethylanilines, α - and β - (MELDOLA), 1884, T., 109, 110.
- β -Naphthol-*p*-azobenzeneazodiphenylamine (MELDOLA), 1883, T., 441.
- β -Naphthol-*p*-azobenzeneazodiphenylethylamine (MELDOLA), 1884, T., 111.
- β -Naphthol-*p*-azobenzeneazo- α -naphthaleneazo-*p*-naphthol (MELDOLA), 1883, T., 437.
- β -Naphthol-*p*-azobenzeneazo- α -naphthaleneazo-*p*-naphtholdisulphonic acid (MELDOLA), 1883, T., 438.
- β -Naphthol-*p*-azobenzeneazo- α -naphthaleneazophenol (MELDOLA), 1883, T., 439.
- β -Naphthol-*p*-azobenzeneazo- α -naphthaleneazoresorcinol (MELDOLA), 1883, T., 439.
- α -Naphtholazobenzeneazo- β -naphthol, and its disulphonic acid (sodium salt) (MELDOLA), 1885, T., 664.
- Naphtholazobenzeneazo- α - and - β -naphthols, α - and β - (MELDOLA), 1885, T., 663, 664.
- Naphtholazobenzeneazophenols, α - and β - (MELDOLA), 1885, T., 665, 666.
- Naphtholazobenzeneazoresorcinols, α - and β - (MELDOLA), 1885, T., 665, 666.
- β -Naphtholazobenzeneazosalicylic acid (MELDOLA), 1885, T., 667.
- β -Naphthol-*p*-azobenzeneazo-*m*-xyleneazo- β -naphthol (MELDOLA), 1883, T., 439.
- β -Naphtholazonitro- ψ -cumenesulphonic acid (MAYER), 1887, A., 953.
- α -Naphtholbisazo-*p*-benzene-*o*-toluene (benzeneazonaphtholazotoluene) (GOLDSCHMIDT and POLLAK), 1892, A., 977.
- Naphthol-*p*-azodiphenylsulphonic acids, α - and β -, sodium salts of (CARNELLEY and SCHLESELMANN), 1886, T., 383.
- α -Naphtholbisdiazobenzene (KROHN), 1889, A., 152.
- β -Naphthylamine, azo-derivatives of (MELDOLA and HUGHES), 1891, T., 372; P., 83.
- constitutional formula for the azo-derivatives of (MELDOLA), 1884, T., 118.
- β -Naphthylamines, secondary, azo-derivatives of (MATTHES), 1890, A., 992.

AZO-COMPOUNDS—

Naphthylphenylethylazammonium iodide (ZINCKE and CAMPBELL), 1890, A., 787.

Nicotenylazosulphimecarbanilide (MICHAELIS), 1892, A., 208.

Nicotenylazoximebenzenyl (MICHAELIS), 1892, A., 207.

Nicotenylazoximepropenyl- ω -carboxylic acid (MICHAELIS), 1892, A., 207.

Oxaleneanilidoximeazoxime-ethenyl (ZINKEISEN), 1890, A., 124.

Oxalenediazoximedibenzenyl (ZINKEISEN), 1890, A., 123.

Oxalenediazoximedipropenyldicarboxylic acid (ZINKEISEN), 1890, A., 123.

Oxyazo-compounds (GOLDSCHMIDT and POLLAK), 1892, A., 974.
action of phosphoric chloride on (PAGANINI), 1891, A., 556.

p-Phenetolazo-*p*-cresol (LIEBERMANN and V. KOSTANECKI), 1884, A., 1147.

m-Phenetolazo- β -naphtholsulphonic acid (WAGNER), 1885, A., 1212.

p-Phenetolazoresorcinol (LIEBERMANN and V. KOSTANECKI), 1884, A., 1147.

Phenylazimidonaphthalenes, *o*- and *p*- (ZINCKE), 1886, A., 244, 245.

Phenylazoacetyl-*m*-amidobenzene (WALLACH and SCHULZE), 1883, A., 583.

Phenylazoamidobenzene hydrochloride (WALLACH and SCHULZE), 1883, A., 583.

Phenol-*p*-azobenzeneazo-*p*-dimethylaniline (MELDOLA), 1884, T., 111.

Phenylazobenzeneazo-*p*-phenol (MELDOLA), 1885, T., 659.

Phenol-*p*-azodiphenylsulphonic acid, sodium salt of (CARNELLEY and SCHLESELMANN), 1886, T., 382.

Phenylazobenzene-*p*-sulphonic acid (GRIESS), 1883, A., 181.

Phenylbisazobenzene, constitution of (GOLDSCHMIDT and POLLAK), 1892, A., 976.

Phenylbisazo-*o*- and -*p*-benzenes, and -*o*- and -*p*-toluenes (GOLDSCHMIDT and POLLAK), 1892, A., 976.

Phenylbisazotoluene (NÖLTING and WEBER), 1891, A., 212.

Phenylbisazo-*o*-toluene (PAGANINI), 1891, A., 557.

Phenylbisazo-*p*-toluene (GOLDSCHMIDT and POLLAK), 1892, A., 976.

AZO-COMPOUNDS—

o-Phenylazimidobenzene (SCHOPFF), 1890, A., 1113; (KEHRMANN and MESSINGER), 1892, A., 889.

amido- (WILLGERODT), 1892, A., 1322.

tetramito- (WILLGERODT), 1892, A., 1454.

3:4-Phenylazimidobenzoic acid (SCHOPFF), 1890, A., 374.

1:2-Phenylazimido-3-chlorobenzene (ERNST), 1891, A., 300.

$\alpha\beta$ -Phenylazimidonaphthalene (ZINCKE), 1886, A., 244; (ZINCKE and CAMPBELL), 1890, A., 787.

ψ -Phenylazimidonaphthalene (CLAUS), 1890, A., 788.

Phenylazimidotolylamine, 'dinitro- (ERNST), 1891, A., 300.

Phenylazo-. See also Benzeneazo-.

Phenylazoacetoacetaldehyde (*benzeneazocetoacetaldehyde*) (BEYER and CLAISEN), 1888, A., 827.

Phenylazoacetoacetic acid (*benzeneazocetoacetic acid*), *o*-nitro-, and its derivatives (BAMBERGER), 1885, A., 157.

Phenylazoacetone. See Pyruvaldehydphenylhydrazone.

Phenylazoacetophenone (*benzeneazacetophenone*), and *o*-nitro- (BAMBERGER and CALMAN), 1886, A., 62.

Phenylazoacetylacetone (*benzeneazacetylacetone*) (BEYER and CLAISEN), 1888, A., 828.

Phenylazoxazolecarboxylic acid (NUSSBERGER), 1892, A., 1178.

Phenyl-*p*-chloronitrazobenzene (*benzeneazo-*p*-chloronitrobenzene*), 2:4-dinitro- (WILLGERODT and BOHM), 1891, A., 906.

o-Phenylenediazo sulphide (JACOBSON), 1889, A., 135.

Phenylenediazosulphidecarboxylic acid (PFITZINGER and GATTERMANN), 1889, A., 368.

Phenylethenylazoximebenzenyl (KNUDSEN), 1885, A., 897.

p-cyano- (ROSENTHAL), 1890, A., 148.

Phenylethenylazoxime-ethenyl (KNUDSEN), 1885, A., 898.

Phenylethenylazoximepropenyl- ω -carboxylic acid (KNUDSEN), 1885, A., 1218.

Phenylethylamidobenzeneazophenylethylaniline (LIPPMANN and FLEISSNER), 1884, A., 180.

Phenyllic diazobenzene-salicylate (LIMPRICHT), 1891, A., 1036.

AZO-COMPOUNDS—

- Phenylmethaneazobenzene, *o*-nitro-** (PAAL and BODEWIG), 1892, A., 1456.
- Phenylmethanimidobenzeneazotri-bromobenzene** (SILBERSTEIN), 1888, A., 662.
- Phenylmethylpyrazoloneazobenzene** (KNORR), 1887, A., 602; (v. BUCHKA and SPRAGUE), 1890, A., 29; (SPRAGUE), 1891, T., 336.
- identity of, with phenylhydrazine-ketophenylmethylpyrazolone (KNORR), 1888, A., 724.
- 1-Phenyl-3:5-pyrazolidone-4-azobenzene** (MICHAELIS and BURMEISTER), 1892, A., 1005.
- Phenylpyrrolineazobenzene** (FISCHER and HEPP), 1886, A., 1042.
- Picrylazonaphthalenes** (*benzeneazobenzene, trinitro-*) (WILLGERODT and SCHULZ), 1891, A., 572.
- Picryl-*m*-chlorazobenzene** (*benzene-*m*-chlorazobenzene, trinitro-*) (WILLGERODT and MUKE), 1892, A., 454.
- Picryl-*p*-chlorazobenzene** (*benzene-*p*-chlorazobenzene, trinitro-*) (WILLGERODT and BOHM), 1891, A., 905.
- Picryl-*p*-chloronitrazobenzene** (*benzene-*o*-chloronitrobenzene, 1 trinitro-*) (WILLGERODT and BOHM), 1891, A., 906.
- Polyazo-compounds** (WILLGERODT), 1890, A., 1118.
- Propane-*p*-bisazoanisole, dinitro-** (KEPPLER and MEYER), 1892, A., 1062.
- Propanebisazobenzene, dinitro-** (KEPPLER and MEYER), 1892, A., 1062.
- Propanebisazotoluene, dinitro-** (KEPPLER and MEYER), 1892, A., 1062.
- Propionyl- α -naphtholazobenzene** (GOLDZWEIG and KAISER), 1891, A., 448.
- Propyleneazobenzene, nitro-** (MEYER), 1892, A., 575.
- Propylene-*p*-azoanisole, propyleneazobenzene, propylene-*m*-azobenzoic acid, propylene-*m*-bromobenzene, propylene-*o*- ψ -cumene, propylene-*p*-azophenetole, and propylene-*o*- and -*p*-azotoluenes, nitro-, derivatives of** (ASKENASY and MEYER), 1892, A., 1062.
- Pyrrolineazobenzene, pyrrolineazobenzene-*o*- β -naphthalene, pyrrolineazo-*p*-dimethylamidobenzene, pyrrolineazo-*o*- and - β -naphthalenes, pyrrolineazo-*p*-toluene,**

AZO-COMPOUNDS—

- pyrrolinebisazobenzene, and pyrrolinebisazo- α - and - β -naphthalenes (FISCHER and HEPP), 1886, A., 1041.
- Quinol-*p*-azodiphenylsulphonic acid, sodium salt of (CARNELLEY and SCHLESSELMANN), 1886, T., 382.
- Resorcinol-*p*-azobenzeneazodimethylaniline (MELDOLA), 1884, T., 110.
- Resorcinolazobenzeneazoresorcinol (MELDOLA), 1885, T., 661.
- Resorcinol-*p*-azodiphenylsulphonic acid, sodium salt of (CARNELLEY and SCHLESSELMANN), 1886, T., 382.
- Resorcinolbisazobenzenes, 1:3:2:4- and 1:3:4:6- (GOLDSCHMIDT and POLLAK), 1892, A., 977.
- Salicenyloximebenzenyl (SPILKER), 1890, A., 143.
- Salicenyloxime-ethenyl (SPILKER), 1890, A., 143.
- Salicenyloximepropenyl- ω -carboxylic acid (MILLER), 1890, A., 146.
- Salicylaldehyde-*m*- and -*p*-azobenzenesulphonic acids (TUMMELEY), 1889, A., 779, 780.
- Salicylamide-*p*-azobenzenesulphonic acid (TUMMELEY), 1889, A., 780.
- Succinenylazoxybenzene (SEMBRITZKI), 1888, A., 935.
- Succinenyldiazoximediobenzenyl (SEMBRITZKI), 1890, A., 125.
- Sulphanilazocumenol, potassium salt of (LIEBERMANN and v. KOSTANECKI), 1884, A., 1147.
- Sulphobenzeneazodiamidobenzoic acid (GRIESS), 1883, A., 184.
- Sulphobenzeneazomidotetrahydronaphthol (BAMBERGER and BAMMAN), 1889, A., 784.
- Sulphobenzeneazooamido-3-methyltetrahydroquinoline (BAMBERGER and WULZ), 1891, A., 1255.
- Sulphobenzeneazooamidomethyl-*p*-toluidine (*sulphobenzeneazomethyltoluidide*) (BAMBERGER and WULZ), 1891, A., 1203.
- Sulphobenzeneazoethyl- α -naphthylamine (BAMBERGER and GOLDSCHMIDT), 1891, A., 1239.
- p*-Sulphobenzeneazo- α -naphthol (NOLTING and GRANDMOUGIN), 1891, A., 1074.
- Sulphobenzeneazonaphthylaminesulphonic acids (*azoomidosulphonaphthalenebenzenesulphonic acids*) (GRIESS), 1883, A., 182, 183.

AZO-COMPOUNDS—

- p*-Sulphobenzeneazo-*o*-nitrophenol, Griess' (MEYER and KREIN), 1888, A., 982.
- Sulphobenzeneazo-*ar*-octohydro- α -naphthaquinoline (BAMBERGER and STETTENHEIMER), 1891, A., 1260.
- Sulphobenzeneazo-*ar*-octohydro- β -naphthaquinoline (BAMBERGER and STRASSER), 1891, A., 1514.
- Sulphobenzeneazo- β -naphthylphenylamine (WITT), 1887, A., 590.
- Sulphobenzeneazotetrahydro- α -naphthaquinoline (BAMBERGER and STETTENHEIMER), 1891, A., 1259.
- Sulphobenzeneazo-*ar*-tetrahydro- α -naphthol (BAMBERGER and BORDT), 1890, A., 509.
- Sulphobenzeneazo- α -tetrahydronaphthylamine (BAMBERGER and BORDT), 1889, A., 715.
- Sulphobenzeneazotetrahydroquinoline (BAMBERGER), 1890, A., 1302.
- Sulphonamidobenzeneazobenzenesulphonamide (LIMPRICHT and MEYER), 1892, A., 973.
- Sulphonamidobenzeneazodibromobenzenesulphonamide, dibromo-, and sulphonamidobenzeneazotribromobenzenesulphonamide, tribromo- (RODATZ), 1883, A., 479, 480.
- Sulpho-*o*- and -*p*-tolylazo-*m*- and -*p*-cresols (*sulphotoluenaeazocresols*) and salts (NOLTING and KOHN), 1884, A., 901, 902.
- Sulphoxylenazo- β -naphtholdisulphonic acid, spectrum of (HARTLEY), 1887, T., 188.
- Tetrahydronaphthaleneazo- α -naphthylamine (BAMBERGER and BORDT), 1889, A., 715.
- Tetrahydronaphthaleneazo- β -naphthylamine, amido- (BAMBERGER and BAMMANN), 1889, A., 733.
- Tetrahydronaphthaleneazoresorcinol (BAMBERGER and BORDT), 1889, A., 716.
- Tetramethyldiamidoazobenzene (*dimethylamidobenzeneazodimethylamine*) (NOLTING and KOHN), 1885, A., 386; (BARBIER and VIGNON), 1888, A., 54.
- Tetrazodiphenol (KUNZE), 1889, A., 262.
- Tetrazodiphenyl (TÄUBER), 1891, A., 570.
- Tetrazodiphenyldisulphonic acid (LIMPRICHT), 1891, A., 930.

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- Tetrazoleazodimethylaniline (THIELE), 1892, A., 1299.
- Tetrazoleazo- β -naphthylamine (THIELE), 1892, A., 1299.
- Tetrazostilbene, dyes from (BENDER and SCHULTZ), 1887, A., 268.
- p*-Tolenyamidine-*p*-tolenylazosulphimecarbohydrosulphide (CRAYEN), 1891, A., 560.
- p*-Tolenyazosulphimecarbo-di- and -hydro-sulphides (CRAYEN), 1891, A., 560.
- p*-Tolenyloximeacetylenyl (SCHUBART), 1890, A., 48.
- o*-Tolenyloximebenzenyl (SCHUBART), 1890, A., 49.
- p*-Tolenyloximebenzenyl (SCHUBART), 1886, A., 798.
- p*-Tolenyloxime-ethenyl (SCHUBART), 1890, A., 47.
- p*-Tolenyloximepropenyl- ω -carboxylic acid (SCHUBART), 1890, A., 48.
- o*-Tolenyloxime-*o*-tolenyl (STIEGLITZ), 1890, A., 256.
- p*-Tolenyloxime-*p*-tolenyl (SCHUBART), 1890, A., 48.
- Tolueneazimidotoluene (ZINCKE and LAWSON), 1887, A., 731.
- p*-Tolueneazacetone (V. RICHTER and MUNZER), 1884, A., 1342.
- Tolueneazochlorobenzenes, *o*- and -*p*- (PAGANINI), 1891, A., 556, 557.
- Tolueneazocyanocamphors, *o*- and -*p*- (MINGUIN), 1892, A., 1343.
- Tolueneazodimethylaniline, and its *p*-azo- β -naphthol and *p*-azophenol compounds (WALLACH), 1887, A., 41.
- Toluene-*o*- and -*p*-azodimethylanilines, *o*- and -*p*-acetamido- and *o*- and -*p*-amido- (WALLACH), 1887, A., 41.
- p*-Tolueneazo-*o*- and -*p*-hydroxyquinolines (MATHIEU), 1888, A., 851, 852.
- Tolueneazo- α -naphthol, amido-, methyl and ethyl ethers of (WITT and SCHMIDT), 1892, A., 863.
- Tolueneazo- α - and - β -naphthols, *o*- and -*p*-, and their derivatives (ZINCKE and KATHGEN), 1887, A., 55.
- p*-Tolueneazo- β -naphthylphenylamine (MATTHEW), 1890, A., 992.
- Tolueneazophenols, *o*- and -*m*- (PAGANINI), 1891, A., 556, 557.
- Tolueneazophenylenediamineazobenzene (GRIESS), 1883, A., 1103.
- Tolueneazophenylic phosphates, *o*- and -*p*- (PAGANINI), 1891, A., 556, 557.

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- p*-Toluenearoresorcinol (HEUMANN and OECONOMIDES), 1887, A., 664.
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 Toluenearozotoluene-di-*o*-sulphonic acid (*p*-azobenzylidene-sulphonic acid) (MOHR), 1884, A., 69.
o-Toluenearo-*m*-toluene (SCHULTZ), 1884, A., 903.
 Toluenediazoacetotoluidide (HEUSLER), 1892, A., 459.
 Toluene-*p*-diazoconine (WALLACH), 1887, A., 137.
 Toluene-*o*- and *p*-diazopiperidides and their nitro-derivatives (WALLACH), 1887, A., 137.
 Toluylazimide (NIEMENTOWSKI), 1888, A., 837.
p-Tolylazimidobenzene, amido- (WILLGERODT), 1892, A., 1322.
 Toluene-*p*-azoacetoacetic acid, *m*-nitro-, and *m*-amido- (BAMBERGER), 1885, 157, 158.
 Toluene-*p*-azoacetone, *m*-nitro- (BAMBERGER), 1885, A., 158.
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p-Toluenearo-*p* cresetol (NOLTING and WERNER), 1891, A., 214.
p-Toluenearo-*p*-cresol, and its acetic and benzoic derivatives (NOLTING and KOHN), 1884, A., 901.
 Toluenearo-*o*- and *p*-cresols, *o*- and *p*- (NOLTING and WERNER), 1891, A., 212.
p-Toluene-*o*-azodibenzylamine (LELLMANN and ARNOLD), 1892, A., 316, 390.
p-Toluenearozodimethylaniline, nitro-derivatives of (NOLTING), 1888, A., 270.
p-Toluenearozodimethylanilinesulphonic acid (NOLTING), 1888, A., 271.
 Toluenearozophenetoils, *o*- and *p*- (NOLTING and WERNER), 1891, A., 212.
o-Toluenearazophenol (NOLTING and WERNER), 1891, A., 212.
o-Toluenearo-*o*-tolylthio- and -dithio-biazolones (FREUND), 1892, A., 513.
p-Toluenearo-*p*-tolylthio-biazolone and *p*-toluenearo-*p*-tolyl- ψ -thio-biazolone (FREUND), 1892, A., 512.
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- Triazimidacetamide (CURTIUS and LANG), 1889, A., 370.
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p-amido- (GRIESS), 1888, A., 826.
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m-Triazobenzenesulphonic acid (LIMPRICHT), 1889, A., 397.
p-Triazobenzenesulphonic acid and its derivatives (GRIESS), 1887, A., 817.
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m-amido- (GRIESS), 1888, A., 826.
 Triazobromobenzenesulphonic acid (LIMPRICHT), 1889, A., 399.
 Triazonaphthalenesulphonic acid and its derivatives (GRIESS), 1887, A., 818.
m-Triazo-oxalamidobenzoic acid (GRIESS), 1888, A., 827.
 Triazo-*o*-toluenesulphonic acids, *o*- and *p*- (LIMPRICHT), 1889, A., 398.
 Trimethylazobenzeneammonium iodide (BERJU), 1884, A., 1149.
 Triphenylmethylazimethylene (CURTIUS and RAUTENBERG), 1891, A., 1360.
 Xylenearoresorcinol (FISCHER and WIMMER), 1887, A., 820.
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m-Xylenediazopiperidine, nitro- (AHRENS), 1892, A., 1437.
 Xylenic diazosulphide (JACOBSON and NEY), 1889, A., 772.
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- Bacillus ethaceticus* (FRANKLAND and Fox), 1890, A., 916.
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- Bacillus strumitis* (KUNZ), 1888, A., 1122.
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- Barium salts**, molecular refraction and dispersion of, in solution (GLADSTONE), 1891, T., 595.
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- Barium chloride and dithionate**, double (FOCK and KLUS), 1891, A., 16.
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- p*-nitro-** (ENGLER and ZIELKE), 1889, A., 505.
- Benzoylcarvoxime** (GOLDSCHMIDT and ZURRER), 1885, A., 1058.
- "Benzoyl-*m*- and -*p*-chlorobenzeneazo-*p*-cresols"** and **"benzoyl-*m*-chlorobenzenehydrazo-*p*-cresol"** (GOLDSCHMIDT and POLLAK), 1892, A., 975.
- Benzoyl-compounds**, preparation of (HOFFMANN and MEYER), 1892, A., 604.
- heat equivalents of** (STOHMANN, RODATZ, and HERZBERG), 1887, A., 878; 1888, A., 333.
- of carbohydrates, glucosamine and glucosides** (KUENY), 1890, A., 578.
- Benzoylcotarnine** and its oxime (ROSEN), 1890, A., 528.
- Benzoyl- ψ -cuminol** (FROELICH), 1884, A., 1319.
- Benzoylcyanocamphor** (HALLER), 1891, A., 1499.
- Benzoyldihydropyrrolone** (ANDERLINT), 1890, A., 65.
- derivatives of** (ANDERLINT), 1890, A., 1430.
- Benzoyldihydroxyanhydroeegonine**, derivatives of (EINHORN and RASNOW), 1892, A., 1016.
- Benzoyldihydroxybenzenesulphonic acid** (*dihydroxybenzophenonesulphonic acid*), ammonium salt of (REMSEN and LINN), 1889, A., 710.
- Benzoyldiphenylsemithiocarbazide** (MICHAELIS and SCHMIDT), 1887, A., 820; 1889, A., 1160.
- Benzoylisodurene** (ESSNER and GOSSIN), 1885, A., 253.
- Benzoyleegonine** (MERCK), 1885, A., 997; (SKRAUP), 1885, A., 1249.
- preparation of** (LIEBERMANN and GIESEL), 1889, A., 168.
- conversion of, into cocaine** (SKRAUP), 1885, A., 1249.
- Benzoylenecarbamide**. See **2:4'-Diketodihydroquinazoline**.

- Benzoylethoxyfurfurine** (BAHRMANN), 1883, A., 800.
- Benzoyl- α -ethoxynaphthalene** (*ethoxynaphthylphenylketone*) (GATIERMANN, EHRHARDT, and MAISCH), 1890, A., 964.
- Benzoylethyl-o-carboxylic acid** (*phenyl ethyl ketone o-carboxylic acid*) (ROSER), 1886, A., 243.
- Benzoylethylenecarboxylic acid**, phenylhydrazide of (ROSER), 1885, A., 797.
- α -Benzoylethyl cyanide**. See Benzoylpropionitrile.
- β -Benzoyl- α -ethylpropionic acid** (*benzoylvaleric acid*) (DITTRICH and PAAL), 1889, A., 257.
- β -Benzoyl- α -ethylsuccinic acid** (DITTRICH and PAAL), 1889, A., 257.
- Benzoyl Eugenol**, dibromo- (WOY), 1890, A., 638.
- Benzoyl isoeugenol** (TIEMANN), 1892, A., 46.
- Benzoylformic acid**. See Phenylglyoxylic acid.
- Benzoylformoxime**, configuration of (SODERBAUM), 1891, A., 1043.
- action of hydroxylamine on (SCHOLL), 1891, A., 288.
- Benzoylglutarimidoxime** (GANNY), 1892, A., 138.
- Benzoylglyoxylic acid**, *o*-amido- (*guinibatic acid*), and its salts (v. BAUER and HOMOLKA), 1884, A., 79.
- ω -Benzoylhexoic acid and its oxime** (KIPPING and PERKIN), 1889, T., 350; P., 79.
- Benzoylhomobenzenyl-**. See Benzoylhydroxytolenyl-.
- Benzoylhomocoonic acid**, and its salts (SCHOTTEN and BAUM), 1885, A., 176.
- Benzoylhomopiperidic acid**. See δ -Benzamidovaleric acid.
- Benzoylhydrochloroacoxime** (WALLACH), 1892, A., 1348.
- β -Benzoylhydrocinnamic acid** (JAPP and MILLER), 1885, T., 32.
- Benzoylhydroxyocetylacetic acid** (EINHORN), 1889, A., 168.
- Benzoylhydroxyethylpyridine** (KLEIN), 1890, A., 1437.
- Benzoylhydroxyhydrazobenzene** (GOLDSCHMIDT and BRUBACHER), 1891, A., 1210.
- α -Benzoylhydroxynaphthaquinone** (KEGEL), 1888, A., 1308.
- Benzoylhydroxypropylpiperidine** (LAUN), 1884, A., 1055.
- Benzoyl-*p*-hydroxytolenylamidoxime** (SCHUBART), 1886, A., 798.
- Benzoylhydroxytropine and its salts** (LADENBURG), 1883, A., 671.
- Benzoylindole** (RUHEMANN and BLACKMAN), 1889, T., 617.
- Benzoylindolecarboxylic acid** (RUHEMANN and BLACKMAN), 1889, T., 617.
- Benzoyl-*l*-iodophenol** (SCHALL), 1883, A., 1109.
- Benzoylisatin and benzoylisatinic acid** (SCHOTTEN), 1891, A., 723.
- Benzoylimonene nitrosochloride** (WALLACH), 1892, A., 1348.
- Benzoylmesitylene** (*to imethylbenzophenone*) (LOUISE), 1883, A., 577.
- Benzoylmesitylenic acids** (LOUISE), 1886, A., 353.
- Benzoyl-*p*-methoxybenzenylamidoxime** (MILLER), 1889, A., 254.
- Benzoylmethylegonine**. See Cocaine, under Alkaloids.
- Benzoylmethyl cyanide**, imido-. See Phenylimidopropionitrile.
- Benzoyl-2'-methylindole** (FISCHER and WAGNER), 1887, A., 588.
- 3-Benzoyl-2'-methylquinoline** (*benzoylquinaldine*) (HINZ), 1888, A., 300.
- Benzoylmethylaurine** (GABRIEL and HEYMAN), 1891, A., 701.
- Benzoyl-2'-methyltetrahydroquinoline**, oxidation and nitro-derivatives of (WALTER), 1892, A., 882.
- Benzoylmethyltrimethylene** (PERKIN and STENHOUSE), 1892, T., 86.
- Benzoylmethyltrimethylenecarboxylic acid and its oxime** (PERKIN and STENHOUSE), 1892, T., 84.
- α -Benzoylnaphthaquinol** (KEGEL), 1888, A., 1308.
- Benzoylnaphthaquinones**, α - and β - (KEGEL), 1888, A., 1307.
- Benzoyl- β -naphthenylamidoxime** (RICHTER), 1890, A., 62.
- Benzoylnicotenylamidoxime** (MICHAELIS), 1892, A., 207.
- Benzoylnitrophenylpyrazolecarboxylic acid** (MEYER), 1889, A., 516.
- Benzoylnitrososorsorcinol**, ethyl ether of (KRAUS), 1892, A., 45.
- Benzoyloscine** (HENNE), 1892, A., 1498.
- Benzoylosotriazole** (BALTZER and v. PECHMANN), 1891, A., 1118.
- Benzoyloxybutyric trichloride**, tertiary (WILGERODT and DURR), 1889, A., 690.
- Benzoylparaleucaniline** (RENOUF), 1883, A., 961.
- p*-Benzoylphenetol** (*ethoxybenzophenone*) (GATIERMANN, EHRHARDT, and MAISCH), 1890, A., 964.
- Benzoylphenol**. See Hydroxybenzophenone.
- Benzoylphenylacetaldehyde** (CLAISEN and MEYEROWITZ), 1890, A., 359.

- Benzoylphenylamidoacetic acid** (RE-BUFFAT), 1887, A., 1108.
- Benzoylphenylazimethylenes** (CURTIUS and THUN), 1891, A., 1357.
reactions of (CURTIUS and LANG), 1892, A., 451.
- Benzoylphenylbenzaldehyde hydrazine** (RUHEMANN and BLACKMAN), 1889, T., 615.
- Benzoylphenyl-*o*-benzoic acid** (ELBS), 1890, A., 514.
- Benzoylphenylbenzidinehydrazide** (MICHAELIS and SCHMIDT), 1887, A., 820.
- Benzoylphenyl-carbizine and -thiocarbizine** (FREUND and GOLDSMITH), 1888, A., 1187.
- 2-Benzoyl-1-phenyl-3:4-dimethylpyrazolones** (NEF), 1892, A., 146.
- Benzoylphenylenediphenylmethane** (HANRIOT and SAINT-PIERRE), 1889, A., 882.
- Benzoylphenylhydrazide** (RUHEMANN and BLACKMAN), 1889, T., 612; P., 127.
- Benzoylphenylhydrazide.** See also Benzophenylhydrazide.
- Benzoylphenylhydrazidepyruvic acid** (RUHEMANN and BLACKMAN), 1889, T., 616.
- Benzoylphenylhydrazimethylenes** (CURTIUS and THUN), 1891, A., 1356.
- Benzoylphenyldiiodomethane** (*whenyl diiodobenzyl ketone*) (CURTIUS and LANG), 1892, A., 451.
- 2-Benzoyl-1-phenyl-3-methylpyrazolone and its 4-bromo-derivative** (NEF), 1892, A., 146.
- 4-Benzoyl-1-phenyl-3-methylpyrazolone** (NEF), 1892, A., 146.
- p*-Benzoylphenylphenylsemithiocarbazide** (RUHEMANN and BLACKMAN), 1889, T., 615.
- β -Benzoyl- β -phenylpropionic acid** (*deoxybenzoinic acid*) (MEYER and OELKERS), 1888, A., 704; (KNOEVENAGEL), 1888, A., 706; 1892, A., 1002.
- Benzoyl-1-phenylpyrazole** (BALBIANO), 1890, A., 798.
- Benzoylphenylsemicarbazide** (RUHEMANN and BLACKMAN), 1889, T., 614.
- Benzoylphthalic acid** (*benzophenonedicarboxylic acid*) (ROSPENDOWSKI), 1886, A., 626.
- Benzoylphthalo- ψ -cumidide** (FRÜHLICH), 1884, A., 1319.
- Benzoylphthalo- ψ -cumidic acid** (FRÜHLICH), 1885, A., 154.
- Benzoylphthalo-*p*-toluidide** (FRÜHLICH), 1885, A., 155.
- β -Benzoylpicolinic acid** (BERNTSEN and MUTHENANG), 1887, A., 737.
- Benzoylpipecoline** (BUNZEL), 1889, A., 904.
- Benzoylpiperidine, amido- and *m*-nitro-, and their derivatives** (SCHOTTEN), 1888, A., 1105.
- Benzoylpropaldehyde** (CLAISEN and MEYEROWITZ), 1890, A., 358.
- β -Benzoylpropion-*o*-carboxylic acid and its salts** (ROSEN), 1885, A., 267.
- α -Benzoylpropionitrile** (*α -benzoylthylidene cyanide*) and its imido-derivative (v. MEYER), 1889, A., 577.
- Benzoylpropionic acid** (FITTING and LEONTI), 1890, A., 895.
oximes of (DOLLEUS), 1892, A., 1202.
phenylhydrazone (KUEB and PAAL), 1886, A., 355.
- Benzoyl- β -propionic acids, alkylated** (CLAUS), 1887, A., 827.
- Benzoylisopropyl-*o*-carboxylic acid.** See Phenyl isopropyl ketone *o*-carboxylic acid.
- Benzoylpropylecgonine** (NOVY), 1887, A., 1126.
- Benzoylpropyl-*l*-ecgonine hydrochloride** (EINHORN and MARQUARDT), 1890, A., 913.
- Benzoylpropylic alcohol** (*phenyl hydroxypropyl ketone*), and its oxime (MARSHALL and PERKIN), 1891, T., 886.
- Benzoyl- α - and - β -pyridyllactic acids** (EINHORN), 1890, A., 521; 1892, A., 76.
- ψ -Benzoylpyrroline** (CIAMICIAN and DENNEDT), 1885, A., 379.
- Benzoylpyruvic acid** (BEYER and CLAIKEN), 1887, A., 944.
preparation of (BROMME and CLAIKEN), 1888, A., 691.
oxime of (SALVATORI), 1892, A., 304.
- Benzoylquinol** (KLINGER and STANDKE), 1891, A., 900.
- Benzoylresorcinol, nitro-** (ERRERA), 1886, A., 51.
- Benzoylretene** (LOUISE and PERRIER), 1892, A., 1205.
- Benzoylsalicylamidoxime** (SPILKER), 1890, A., 143.
- Benzoylscooletin** (TAKAHASHI), 1889, A., 256.
- β Benzoylisosuccinic acid** (BISCHOFF), 1883, A., 912; 1886, A., 355; (KUEB and PAAL), 1886, A., 354.
- Benzoylsuccinimidoxime** (GARNY), 1892, A., 137.
- Benzoylsulphobenzamidinic anhydride** (EITNER), 1892, A., 713.

- Benzoyltannin** (BOTTINGER), 1890, A., 163.
- Benzoyltetrahydroquinoline** (HOFFMANN and KOENIGS), 1883, A., 1144.
- Benzoyltetramethylene** (PERKIN), 1883, A., 1084.
- Benzoyltetramethylenecarboxylic acid** (PERKIN), 1883, A., 1084.
- Benzoyldithionaphthol**. See Dibenzyldisulphhydronaphthalene.
- Benzoyl-p-toluic acid** (ELBS and LARSEN), 1885, A., 261.
- 1'-Benzoyltolylamido-1:4-naphthaquinone** (KEGEL), 1888, A., 1308.
- Benzoyl-o-tolylthiocarbamide** (DIXON), 1889, T., 622.
- Benzoyltrihydroxybenzamidopyrroline** (RUGHEIMER), 1889, A., 1210.
- Benzoyltrimellitic acid** (ELBS), 1887, A., 942.
- Benzoyltrimethylene** (PERKIN), 1885, T., 840.
reduction of (MARSHALL and PERKIN), 1891, T., 885.
oxime of (PERKIN), 1884, A., 1155; 1885, T., 845; (PERKIN and STENHOUSE), 1892, T., 86.
- Benzoyltrimethylenecarboxylic acid and its salts** (PERKIN), 1884, A., 64; 1885, T., 836.
action of hydrobromic acid on (PERKIN), 1885, T., 842.
action of water on (FREER and PERKIN), 1887, T., 837.
reduction of (MARSHALL and PERKIN), 1891, T., 884.
oxime of (MARSHALL and PERKIN), 1891, T., 883.
- Benzoyltriphenylpropiomethylamide, and its distillation** (KLINGEMANN and LAYCOCK), 1891, T., 147.
- Benzoyltropeine** (LADENBURG), 1883, A., 671.
- Benzoyl-ψ-tropeine** (LIEDERMAN), 1891, A., 1265.
- Benzoylvaleric acid** (*β-benzoyl-α-ethylpropionic acid*) (DITTRICH and PAAL), 1889, A., 257.
- Benzoylxylenylamidoxime** (OPPENHEIMER), 1890, A., 49.
- Benzyl, bis-o-chloronitrosyl-** (BEHREND and NISSEN), 1892, A., 1200.
nitro-, chlorides of *o*- and *m*- (ABELLI), 1883, A., 1092.
*bis*nitrosyl- (*dinitrosotoluene*) (BEHREND and KONIG), 1890, A., 1122.
bis-p-nitronitrosyl- (BEHREND and KÖNIG), 1891, A., 1035.
- Benzyl acetoxime and its hydrochloride** (JANNY), 1888, A., 581.
- Benzyl isoamyl and isobutyl ethers, decomposition of, by heat and by nitric acid** (ERRERA), 1887, A., 1103.
- Benzyl ethyl ether** (MÜLLER), 1886, A., 875.
p-chloro- and *p*-bromo-, and their decomposition by heat and by nitric acid (ERRERA), 1887, A., 1103.
o-chloro-*p*-nitro- (WITT), 1892, A., 445.
- Benzyl mercaptan, p-bromo-** (JACKSON and HARTSHORN), 1884, A., 665.
o-cyano- (DAY and GABRIEL), 1890, A., 1250.
- Benzyl methyl ether, action of phosphoric chloride on** (COLSON), 1885, A., 252.
o-chloro-*p*-nitro- (WITT), 1892, A., 444.
- Benzyl methyl ketone, bromodinitro-** (JACKSON and MOORE), 1889, A., 781; 1890, A., 773.
trinitro- (DITTRICH), 1890, A., 1419.
- Benzyl selenomercaptan, o-cyano-** (DROBY), 1891, A., 1460.
- Benzyl tolyl ketone**. See Toly benzyl ketone.
- Benzyl o-, m-, and p-xylol ketones** (WEGE), 1892, A., 338.
- Benzylacetamide, o-amido-** (GABRIEL and JANSSEN), 1890, A., 1442.
p-nitro- (AMSEL and V. HOFMANN), 1886, A., 698; (HAFNER), 1889, A., 982; 1890, A., 486.
- Benzylacetanilide** (MELDOLA and SALMON), 1888, T., 780.
o-amido- (PAAL and KRECKE), 1892, A., 80.
o-nitro- (PAAL and KRECKE), 1890, A., 1443.
- Benzylacetoacetic acid** (CERESOLE), 1883, A., 41.
- Benzylacetomethylamide, o-nitro-, and o-amido-** (GABRIEL and JANSSEN), 1892, A., 218.
- Benzylacetone, m-amido-** (V. MILLER and RÖHDE), 1890, A., 1138.
nitroso- (CERESOLE), 1883, A., 41.
- Benzylacetone-*o*-carboxylic acid** (BÜLOW), 1887, A., 144.
- Benzylaceto-p-nitranilide** (MELDOLA and SALMON), 1888, T., 779.
- Benzylacetophenone** (*phenyl phenylethyl ketone*) (SCHNEIDWIND), 1888, A., 705; (PERKIN and STENHOUSE), 1891, T., 1007.
reduction of (PERKIN and STENHOUSE), 1891, T., 1008.
oxime of (PERKIN and STENHOUSE), 1891, T., 1008.

- Benzylaceto-*p*-toluidide**, *o*-amido- (SÖDERBAUM and WIDMAN), 1890, A., 1258.
- Benzylacetoxyposphinous acid** (*acetoxybenzylphosphinous acid*) (VILLE), 1890, A., 619.
- Benzylacetylglutaric acid** (FITTIG and CHRIST), 1892, A., 963.
- Benzylallylthiocarbamide** (DIXON), 1891, T., 559.
- "Benzylalsorbitol"** (MEUNIER), 1890, A., 730.
- Benzylamine**, and its derivatives (CLAUS and ELBS), 1883, A., 982; (CLAUS and KOHLSTOCK), 1885, A., 1132.
- benzoylchloride (CLAUS and SCHERBEL), 1886, A., 238.
- platinochloride (CLAUS and ELBS), 1883, A., 982.
- Benzylamidacetic acid**, benzylamide of (HINSBERG), 1892, A., 1458.
- o*-Benzylamidacetophenone, and its nitroso-derivative (v. BAER), 1884, A., 1021.
- Benzylamidobenzeneazo- α - and - β -naphthols** (MELDOLA and COSTE), 1889, T., 596.
- Benzylamidobenzoic acid** (CLAUS and GLYCKHEER), 1883, A., 1009.
- Benzylamidodimethylaniline** (KÖHLER), 1888, A., 50.
- Benzyl-*p*-amidodiphenylamine** (HENCKE), 1890, A., 609.
- Benzylamidosulphonic acid** (SCHMIDT), 1892, A., 476.
- Benzylamine** (CURTIUS and LEDERER), 1887, A., 40.
- preparation of (HOOGWERFF and VAN DORP), 1887, A., 245; (GOLDSCHMIDT), 1887, A., 249.
- heat of formation of (PETIT), 1888, A., 1239.
- action of bromine on (WALLACH), 1891, A., 189.
- action of carbonyl chloride on (KUHNE and RIESENFELD), 1892, A., 312.
- condensation of, with furfuraldehyde (DE CHALMOT), 1892, A., 1452.
- action of, on glycol chlorhydrin (GOLDSCHMIEDT and JAHODA), 1891, A., 1351.
- action of, on methylenic chloride (KEMPF), 1890, A., 887.
- action of sulphur on (WALLACH), 1891, A., 189.
- compounds of, with mercuric chloride (ANDRÉ), 1891, A., 1030.
- hydrogen malate, action of heat on (GIUSTINIANI), 1892, A., 820.
- Benzylamine**, *o*-amido- (GABRIEL), 1887, A., 1037.
- m*-amido- (GABRIEL and HENDERS), 1888, A., 111.
- p*-amido-, and its salts (AMSEL and v. HOFMANN), 1886, A., 698; (HAFNER), 1889, A., 982; (SALKOWSKI), 1889, A., 1174.
- di*-iodo- (BILTZ), 1892, A., 1449.
- o*-nitro- (GABRIEL), 1887, A., 1037; (GABRIEL and JANSEN), 1892, A., 217.
- m*-nitro- (GABRIEL and HENDERS), 1888, A., 144.
- primary, and tertiary, and their amido-compounds (BOGMANN), 1886, A., 56.
- p*-nitro- (HAFNER), 1890, A., 486.
- hydrochloride (HAFNER), 1889, A., 982.
- di*-*o*-nitro- (GABRIEL and JANSEN), 1892, A., 218.
- tri*-nitro- (MARQUARDT), 1886, A., 615.
- Benzylamine-*p*-carboxylic acid** (GUNTHER), 1890, A., 977.
- Benzylammonium succinates** and their derivatives (WERNER), 1889, T., 627; P., 127.
- thiocyanate (DIXON), 1891, T., 553.
- Benzylangelicalactone** (ENDMANN), 1890, A., 376.
- Benzylaniline**, molecular refraction and dispersion of (GLADSTONE), 1891, T., 296.
- action of sulphur on (WALLACH), 1891, A., 189.
- Benzylaniline**, amido-. See Benzylphenylenediamine.
- o*-chloro-*p*-nitro- (WITT), 1892, A., 445.
- o*-nitro-, and its derivatives (LEHMANN and STICKEL), 1886, A., 793.
- reduction of (PAAL and KRECKE), 1890, A., 1441.
- p*-nitroso- (FISCHER and HEFT), 1890, A., 614; (BOEDDINGHAUS), 1891, A., 1205.
- Benzylisoanisaldoxime** (GOLDSCHMIDT), 1890, A., 1262.
- γ -Benzylanthracene** (BACH), 1890, A., 1145.
- Benzylanthracenesulphonic acid**, barium salt of (BACH), 1890, A., 1145.
- Benzylanthranol** (BACH), 1890, A., 1425.
- Benzylarbutin** (SCHIFF), 1881, A., 432.
- Benzylarsines** (MICHAELIS and PAETOW), 1885, A., 526.

- Benzylbarbituric acid** (CONRAD and GUTHZEIT), 1883, A., 314.
- Benzylbenzaldoximes, α - and β -** (BECKMANN), 1889, A., 607, 608.
- Benzylsobenzaldoxime** (BEHREND and KÖNIG), 1890, A., 1123.
constitution of (BEHREND), 1889, A., 979.
interaction of, with phenylic cyanate (GOLDSCHMIDT), 1890, A., 1412.
nitro-, isomeric forms of (BEHREND and KÖNIG), 1890, A., 1412; 1891, A., 1034.
m-nitro- (BEHREND), 1892, A., 50.
- Benzylbenzamide, *o*-amido-, and *o*-nitro-** (GABRIEL and JANSEN), 1890, A., 1442.
- Benzylbenzenylamidine** (KEHRMANN and MESSINGER), 1892, A., 1110.
- Benzylbenzenylamine.** See Dibenzylamine.
- Benzylbenziloximes** (AUWERS and MEYER), 1889, A., 609; (AUWERS and DITTRICH), 1889, A., 1192.
- m*-Benzylbenzoic acid, and its salts** (SENF), 1884, A., 428.
- Benzylbenzylidenediamidophenylamine** (MELDOLA and COSTE), 1889, T., 594.
- Benzylborneols** (HALLER), 1892, A., 73.
- Benzylbromazimidobenzene** (ZINOKE and ARZBERGER), 1889, A., 502.
- Benzylisobutylamine** (ZAUNSCHIRM), 1888, A., 1077.
- Benzylisobutylcarbamide** (KÜHN and RIESENFELD), 1892, A., 312.
- Benzylcamphor** (HALLER), 1891, A., 1498; 1892, A., 73.
- Benzylcamphoroxime** (HALLER), 1892, A., 73.
- γ -Benzyl- δ -caprolactone.** See δ -Hydroxy- γ -benzylhexoic acid, lactone of.
- Benzylcarbamide, *o*-nitro-** (GABRIEL and JANSEN), 1892, A., 218.
p-nitro- (HAFNER), 1889, A., 982; 1890, A., 486.
- Benzylcarbamine** (SCHNEIDEWIND), 1888, A., 705.
- Benzylchloroethylamine hydrochloride** (GOLDSCHMIDT and JAHODA), 1891, A., 1351.
- Benzyl-*o*-chloroisobenzaldoxime, *o*-chloro-** (BEHREND and NISSEN), 1892, A., 1199.
- Benzyl-*p*-chlorodeoxybenzoin** (PETRENKO-KRITSCHENKO), 1892, A., 1227.
- Benzylchrysaniine** (TRILLAT and DE RACZKOWSKI), 1892, A., 1095.
- Benzyleinchonidine** (CLAUS), 1892, A., 1251.
- Benzylcinnamic acid** (MICHAEL and PALMER), 1885, A., 987; (OGLIALORO-TODARO), 1891, A., 76.
- Benzyl-*o*- and *p*-cresols, nitro-derivatives of** (STAEDEL), 1883, A., 863.
- Benzyl-compounds, *p*-bromo-** (JACKSON and HARTSHORN), 1884, A., 665.
- Benzylcyanocamphor and its *o*-nitro-derivative** (HALLER), 1891, A., 1499.
- Benzyldeoxybenzoin** (MEYER and OELKERS), 1888, A., 703.
p-amido-, and *o*- and *p*-nitro- (BUDEBERG), 1890, A., 1142.
- Benzyl diazoamidobenzene** (FRISWELL and GREEN), 1886, T., 749.
- Benzyl dihydro-anthracene and -anthranol** (BACH), 1890, A., 1425.
- Benzyl dihydropyrroline** (ANDERLINI), 1890, A., 65, 1430.
- Benzyl dihydroxy-cinchotennidine and -cinchotennine** (CLAUS), 1892, A., 1250, 1251.
- Benzyl dimethylamine** (JACKSON and WING), 1887, A., 721.
m-nitro- (BOGMANN), 1886, A., 57.
- o*-Benzyl-*m*-dimethylbenzoic acid** (GRESLY), 1886, A., 1029.
- Benzyl dimethylcarbamide** (HINRICHSSEN), 1889, A., 391.
- Benzyl dimethylsuccinic acid** (BISCHOFF), 1891, A., 829.
- Benzyl dimethylthiocarbamide** (HINRICHSSEN), 1889, A., 391.
- Benzyl diphenyl-** See Diphenylbenzyl-.
- Benzyl diisopropylamine** (UEBEL), 1888, A., 1079.
- Benzyl durene, preparation of** (BEAUREPAIRE), 1889, A., 966.
- Benzyl durene** (ESNER and GOSSIN), 1885, A., 253.
- Benzylene.** See Benzylidene.
- "Benzylenes, α - and β ," and a nitro-derivative of** (GLADSTONE and TRIBE), 1885, T., 450.
- Benzylethanetricarboxylic acid (*phenylpropanetricarboxylic acid*)** (FITTIG and RÜDERS), 1890, A., 896.
- Benzylethylacetic acid.** See Phenylvaleric acid.
- Benzylethylamine** (CLAUS and KOHLSTOCK), 1885, A., 1133.
- Benzylethylamidobenzenephosphinic chloride** (MICHAELIS and SCHENCK), 1891, A., 437.
- Benzylethyl-*m*-amidophenol, *o*-amido-** (LELLMANN and BOYE), 1890, A., 1116.
o-nitro-, hydrochloride (LELLMANN and BOYE), 1890, A., 1116.
- Benzylethylamine** (ZAUNSCHIRM), 1888, A., 1077; (KRAFT), 1891, A., 51.

- Benzylethylaniline** (FRIEDLÄNDER), 1889, A., 606.
- Benzylethylanilinesulphonic acid**, sodium salt of (MICHAELIS and GONCHAUX), 1890, A., 611.
- Benzylethylglutaric acid** (GUTHZETT and DRESSER), 1891, A., 179.
- s*-Benzylethylsuccinic acid** (BISCHOFF and WALDEN), 1889, A., 959.
- Benzylethyl*l*thiocarbamic acid** (ZAUNSCHIRM), 1888, A., 1077.
- Benzylethylthiocarbamide** (DIXON), 1889, T., 300.
- Benzylethyl-*p*-toluidine** (RABAUT), 1892, A., 313.
- Benzylenchylamine** (WALLACH and GRIEPENKERL), 1892, A., 1239.
- Benzylformamide, *o*-nitro-** (GABRIEL and JANSEN), 1890, A., 1443.
- Benzylformanilide** (PICTET and CRÉPEUX), 1888, A., 689.
- o*-nitro-** (PAAL and BUSCH), 1890, A., 72.
- Benzylformimide hydrochloride** (PINNER), 1883, A., 1089.
- Benzylformo-*o*- and *p*-toluidides, *o*-nitro-** (PAAL and BUSCH), 1890, A., 73.
- Benzylformylecamphor** (CLAISEN), 1891, A., 574.
- Benzylfumaramic acid** (GIUSTINIANI), 1892, A., 821.
- Benzylfumarimide** (GIUSTINIANI), 1892, A., 821.
- Benzylfurfuraldoxime** (WERNER), 1890, A., 1267; (GOLDSCHMIDT and ZANOLI), 1892, A., 1434.
- Benzylfurfuryl.** See Furfurylphenylethane.
- Benzylglyoxaline** (WALLACH), 1883, A., 911.
- Benzylhemipinamic acid** (GOLDSCHMIDT), 1888, A., 1117.
- Benzylhemipinazimide** (GOLDSCHMIDT), 1888, A., 1117.
- α*-Benzylhomophthalimide.** See *o*-Carboxyphenylbenzylacetamide.
- α*-Benzylhomopiperidinic acid** (ASCHIAN), 1891, A., 407.
- Benzylhydratropic acid.** See Diphenylbutyric acid.
- Benzylhydroxyanthranol** (LEVI), 1885, A., 1240; (LINEBARGER), 1892, A., 346.
- Benzylhydroxydiphenylmaleide** (COHN), 1892, A., 483.
- Benzylhydroxyhexoic acid, salts of** (FITTIG and CHRIST), 1892, A., 963.
- Benzylhydroxylamine, formula of** (MEYER), 1883, A., 569.
- derivatives of** (BEHREND and LEUCHS), 1889, A., 500.
- α*-Benzylhydroxylamine** (BECKMANN), 1889, A., 608.
- β*-Benzylhydroxylamine, and its derivatives** (BECKMANN), 1889, A., 608; (BEHREND and LEUCHS), 1889, A., 704; (BEHREND and KÖNIG), 1891, A., 1033.
- mono*- and *di*-*o*-chloro-** (BEHREND and NISSEN), 1892, A., 1199, 1200.
- m*-nitro-** (BEHREND), 1892, A., 51.
- p*-nitronitroso-, and nitroso-** (BEHREND and KÖNIG), 1891, A., 1034, 1035.
- Benzylhydroxylamines, oxidation of** (KOTHE), 1892, A., 316.
- Benzyllic acetate, action of chlorine and bromine on, and its reactions** (SEMLIG), 1889, A., 598.
- acetoacetate, action of sulphuric acid on** (v. RECHMANN), 1883, A., 808.
- alcohol, dispersive power of** (BARBIER and ROUX), 1889, A., 805.
- o*-amido-, and its derivatives** (SODERBAUM and WIDMAN), 1889, A., 972; 1890, A., 178; (SODERBAUM), 1890, A., 1254.
- p*-amido-, and its derivatives** (O. and G. FISCHER), 1891, A., 695.
- p*-bromo- and *p*-chloro-derivatives** (ERRERA), 1889, A., 247.
- o*-chloro-*p*-amido-, and *o*-chloro-*p*-nitro-** (WITT), 1892, A., 445.
- p*-nitro-** (HAFNER), 1890, A., 486.
- preparation and condensation products of** (BASLER), 1884, A., 310.
- allophanate and phenylallophanate** (TRAUBE), 1889, A., 393, 964.
- bromide, action of the copper-zinc couple on** (GLADSTONE and TRINE), 1885, T., 443; P., 60.
- p*-bromo-, formation of, from *p*-bromotoluene** (SCHRAMM), 1885, A., 379.
- o*-chloro-*p*-nitro-** (TIEMANN), 1891, A., 704.
- derivatives of** (WITT), 1892, A., 444.
- o*-cyano-** (DRORY), 1891, A., 1461.
- chloroacetates** (NEUBERT), 1888, A., 456.
- chloride, action of bromine on** (SRPEK), 1891, A., 44; (ERRERA), 1891, A., 1020.
- action of copper on** (ONUFROWICZ), 1884, A., 1133.
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- action of powdered zinc on** (PROST), 1886, A., 1034.
- chloride, amido-** (BORGSMANN), 1886, A., 56.

- Benzyl chloride, *o*-cyano-** (GABRIEL and OTTO), 1887, A., 1035; (DAY and GABRIEL), 1890, A., 1249; (DRORY), 1891, A., 1460.
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- Benzyl chloride, *mono*- and *di*-sulphides, *o*-nitro-** (JAHODA), 1890, A., 488.
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- Benzylideneacetone.** See Styryl methyl ketone.
- Benzylideneacetophenone** (CLAISEN and PONDER), 1884, A., 1167.
- Benzylideneamidocarbazole** (MAZZARA and LEONARDI), 1892, A., 616.
- p*-Benzylideneamidodimethylaniline** (CALM), 1885, A., 388.
- Benzylidene-*p*-amidodiphenylamine** (IENCKE), 1890, A., 609.
- Benzylideneamidoguanidine** (THIELE), 1892, A., 1297.
- Benzylidene-*o*-amidophenol** (PICTET and ANKERSMIT), 1892, A., 196.
- Benzylidene-*p*-amidophenol** (HAEGELE), 1892, A., 1451.
- Benzylideneamidophenyltolylamine and its *p*-nitro-derivative** (REICHOLD), 1890, A., 610.
- Benzylideneaniline** (HANTZSCH), 1891, A., 50.
- Benzylideneanthrone, amido-** (BACH), 1890, A., 1425.
- Benzylideneantipyrin** (KNORR), 1884, A., 1378.
- Benzylideneazine, and its *o*-nitro-derivative** (CURTIUS and JAY), 1889, A., 393.
- Benzylidenebenzamide** (BECKMANN), 1891, A., 194.
- Benzylidenebenzenylamidine** (PINNER), 1889, A., 1005.
- Benzylidenebenzidine, *m*-nitro-** (SCHIFF and VANNI), 1890, A., 1298.
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- Benzylidenebisdiphenylpyrazolone** (KNORR and KLOTZ), 1887, A., 1121.
- Benzylidenebishydroxynaphthaquinone** (ZINCKE and THELEN), 1888, A., 1097.
- Benzylidenebiuret** (ABEL), 1891, A., 702.
- Benzylideneisobutylamine** (ZAUSCHIRM), 1888, A., 1077.
- Benzylideneecamphor** (HALLER), 1891, A., 1498.

- Benzylidenecarbinethioglycollic acid (ANDREASCH), 1889, A., 960.
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 Benzylidenedimethylethylenediamine (MASON), 1887, A., 191.
 Benzylidene-*p*-dimethylphenylenediamine (CALM), 1885, A., 388.
 Benzylidenedi- α -naphthol and -naphthyl oxide (CLAISEN), 1887, A., 270.
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 Benzylidenehomo-*o* phthalethylimide (PULVERMACHER), 1887, A., 1111.
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 Benzylidenehydrazine (CURTIUS and PFUG), 1892, A., 456.
 Benzylidenehydrazineacetic acid (CURTIUS), 1891, A., 56.
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- Benzylidene-2'-methylquinoline** and its salts (JACOBSEN and REIMER), 1884, A., 836; (V. MILLER), 1891, A., 1096.
- amido-** [m.p. 172°] (BULACH), 1889, A., 528.
- m-amido-** [m.p. 158°] (WARTANIAN), 1891, A., 330.
- 3-nitro-** (WARTANIAN), 1891, A., 330.
- 4-nitro-** (BULACH), 1887, A., 976.
- Benzylidene-4'-methylquinoline, m-amido-** (HEYMANN and KOENIGS), 1888, A., 1114.
- m-nitro-** (HEYMANN and KOENIGS), 1888, A., 853.
- Benzylidene-4'-methylquinoline-4-sulphonic acid** (BUCH and KOENIGS), 1890, A., 1435.
- Benzylidene-p-nitraniline** (V. MILLER and FLOCHL), 1892, A., 1194.
- Benzylidene-m-nitrobenzenylamidoxime, m-nitramido-** (STIEGLITZ), 1890, A., 256.
- Benzylidenephthalaldehydine** (GABRIEL), 1885, A., 1229.
- Benzylidenephthalide** and its derivatives (GABRIEL), 1885, A., 902, 1229; 1888, A., 143.
- di-bromide** (GABRIEL), 1885, A., 165.
- α -cyano-** (GABRIEL), 1885, A., 902.
- iso-Benzylidenephthalide** (GABRIEL), 1885, A., 1230; 1888, A., 144.
- Benzylidenephthalimidine** and its nitroderivatives (GABRIEL), 1885, A., 1229, 1230.
- iso-Benzylidenephthalimidine** (GABRIEL), 1885, A., 1231; 1886, A., 266.
- amido-** (GABRIEL), 1886, A., 631.
- chloro-** (GABRIEL), 1887, A., 62.
- nitro-** (GABRIEL), 1886, A., 630, 631.
- Benzylidenepinylamine** (WALLACH and LORENTZ), 1892, A., 997.
- Benzylidenepiperazine** (SCHMIDT and WICHMANN), 1892, A., 211.
- α -Benzylidenepropionic acid.** See **α -Methylcinnamic acid.**
- Benzylidenepropylamine** (ZAUNSCHMIDT), 1888, A., 1077.
- Benzylidenequinaldine.** See **Benzylidene-2'-methylquinoline.**
- Benzylidenequinoline-3-carboxylic acid** (V. MILLER), 1890, A., 1325.
- Benzylidenesulphonic acid** and its salts (NENCKI and BOUQUIN), 1885, A., 40; (BONDZYNSKI), 1887, A., 1409.
- α -amido-** (BONDZYNSKI), 1887, A., 1109.
- Benzylidenesemicarbazide** (THIELE), 1892, A., 1297.
- Benzylidenescatole.** See **Benzylidene-3'-methylindole.**
- Benzylidenesulphonaphthionic acid,** sodium salt of (KAFKA), 1891, A., 721.
- Benzylidenesulphonic acid phenylhydrazone,** sodium salt of (KAFKA), 1891, A., 720.
- Benzylidenethiobiuret** (BRODSKY), 1887, A., 580.
- chloro-** (ABEL), 1891, A., 703.
- Benzylidenethioglycolic acid** (BONGARTZ), 1888, A., 478.
- Benzylidenethiohydantoic acid** (ANDREASCH), 1888, A., 48.
- Benzylidenetolylene** (LIPPMANN), 1887, A., 151.
- 4-Benzylidene-2:4:6-trimethylpyridine-3:5-dicarboxylic acid.** See **4-Styryl-2:6-dimethylpyridine-3:5-dicarboxylic acid.**
- Benzylidene-p-xylylene** and its *m*-nitro derivative (PFLUG), 1890, A., 606.
- Benzylidene chloride,** condensation of, with benzene (LINDBERGER), 1892, A., 719.
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- α - and β -trichloro-** (SEELIG), 1885, A., 770.
- α -cyano-** (GABRIEL and WEINE), 1888, A., 261; (DROUY), 1891, A., 1460.
- m-cyano-** (REINGLASS), 1891, A., 1344.
- p-nitro-,** preparation of (ZIMMERMANN and MULLER), 1885, A., 771.
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- Benzylimidobenzylcarbaminoethioethyl** (REIMARUS), 1887, A., 43.
- Benzylindigo** (V. BAeyer), 1884, A., 1021.
- 1'-Benzylindole** (ANTHICK), 1885, A., 543.
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- Benzylidene, cyano-** (WACHE), 1889, A., 684.
- Benzyl- ψ -isatin** (ANTHICK), 1885, A., 543.
- Benzyllepidine.** See **Benzyl-4'-methylquinoline.**
- Benzyllevulinic acid,** and its bromo derivative (ERDMANN), 1890, A., 376.
- Benzylmalamic acid** (GIUSTINIANI), 1892, A., 822.
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- Benzylmalon-*o*-carboxylic acid** (WILCOX), 1888, A., 150.
- Benzylmalondiamide** (BISCHOFF and SIEBERT), 1887, A., 952.
- Benzylmalonic azoimide and phenylhydrazide** (RUHEMANN and MORRELL), 1892, T., 796.
- Benzylmesitylene** (LOUISE), 1883, A., 323.
- Benzylmethylacetone** (*phenyl isopropyl methyl ketone*) (V. MILLER and ROHDE), 1890, A., 1138.
- Benzylmethylacetoximic acid.** See Benzylmethylglyoxime.
- Benzylmethylamazine** (CLAUS and KOHLSTOCK), 1885, A., 1133.
- Benzylmethylamidobenzenephosphinic acid and chloride** (MICHAELIS and SCHENK), 1891, A., 437.
- Benzylmethylaniline, *p*-nitroso-** (BOENDINGHAUS), 1891, A., 1206.
- Benzylmethylanilinesulphonic acid, sodium salt of** (MICHAELIS and GODCHAUX), 1890, A., 611.
- o*-Benzyl-*m*-methylbenzoic acid** (GRESLEY), 1886, A., 1028.
- Benzylmethylbromobenzenesazamonium iodide** (ZINCKE and ARZBERGER), 1889, A., 502.
- Benzylmethylcarbinol** (*phenyl isopropyl alcohol*) (ERRERA), 1887, A., 35.
- Benzylmethylglyoxime** (SCHRAMM), 1883, A., 590.
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- Benzylmethylketonesulphonic acid** (KRECKELER), 1887, A., 141.
- μ*-Benzyl-*β*-methyloxazoline** (ELFELD), 1892, A., 214.
- Benzyl-2'-methylquinoline** (HEYMANN and KOENIG), 1888, A., 858.
- Benzyl-4'-methylquinoline** (HEYMANN and KOENIG), 1888, A., 853.
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- Benzylmethylsuccinic acid** (BISCHOFF and KUHLEBERG), 1890, A., 1131.
- Benzylmethylsuccinic anhydride** (BISCHOFF and MINZ), 1890, A., 774.
- Benzylmethylsulphide-*o*-carboxylic acid** (DAY and GABRIEL), 1890, A., 1251.
- Benzylmethylthiocarbamide** (DIXON), 1889, T., 619.
- Benzylmethyl-*o*- and -*p*-toluidines** (RABAUT), 1892, A., 313.
- Benzylmethyluracil** (HAGEN), 1888, A., 582.
- Benzylmethyl-*m*-xylydine** (JABLINGONNET), 1892, A., 1320.
- Benzylmorpholine** (GOLDSCHMIEDT and JAHODA), 1891, A., 1351.
- Benzyl-naphthalenes, *α*- and *β*-** (VINGENT and ROUX), 1884, A., 609; (ROUX), 1888, A., 1306.
- Benzyl-narceine and its salts** (CLAUS and RITZELFELD), 1885, A., 997.
- Benzyl-*m*- and -*p*-nitranilines** (MELDOLA and STREATFIELD), 1887, T., 113.
- Benzyl-nitroarbutin** (SCHIFF), 1884, A., 433.
- Benzyl-*p*-nitrobenzaldoxime** (BEHREND and KONTIG), 1891, A., 1035.
- Benzyl-*m*-nitroisobenzaldoxime** (GOLDSCHMIEDT), 1890, A., 1202.
- Benzyl-*p*-nitroisobenzaldoxime, *p*-nitro-** (BEHREND and KONTIG), 1891, A., 1034.
- Benzyl-*m*- and -*p*-nitroisobenzaldoximes, intramolecular change of** (BEHREND), 1892, A., 50.
- Benzyl-*p*-nitro-*β*-benzylhydroxylamine, oxidation of** (BEHREND and KONTIG), 1891, A., 1034; 1892, A., 1156.
- Benzyl-*d*-nitro-*o*-cresol, nitro-** (STAEDTEL), 1883, A., 864.
- Benzyl-*d*-nitrophenol, nitro-** (STAEDTEL), 1883, A., 864.
- Benzyl-nitroquinol** (SCHIFF), 1884, A., 433.
- Benzyl-*d*-nitroquinol** (PELLIZZARI), 1884, A., 437.
- Benzyl-nitrosoacetone, an isomeride of** (MEYER and CERESOLE), 1883, A., 572.
- Benzyl-n-anthaldoxime** (GOLDSCHMIEDT and ZANOLI), 1892, A., 1136.
- Benzylloxanthranol** (BACH), 1890, A., 1111, 1125.
- Benzylloxycarbamide** (BEHREND and LEUCHS), 1889, A., 501.
- Benzyl-oxy-*p*-chlorobenzophenone** (DESMUTH and DIETRICH), 1891, A., 814.
- Benzyl-oxy-*α*-naphthylthiocarbamide** (VOLLMER), 1891, A., 559.
- Benzyl-oxyterephthalic acid** (v. BAEYER and TUBBIN), 1889, A., 1181.
- Benzyl-oxy-*o*-tolylthiocarbamide** (VOLLMER), 1890, A., 1127; 1891, A., 558.
- Benzyl-oxytribenzylammonium iodide** (WALDER), 1886, A., 796; 1887, A., 246.
- Benzylpapaveraldinesammonium hydr-oxide** (GOLDSCHMIEDT), 1888, A., 1117.
- μ*-Benzylpentoxazoline** (ELFELD), 1892, A., 215.
- Benzylphenol, nitro-derivatives of** (STAEDTEL), 1883, A., 863.

- p*-Benzylphenol and its derivatives (RENNIE), 1886, T., 406; P., 184.
- Benzyl-*o*-phenylenediamine (SODERBAUM and WIDMAN), 1890, A., 1258.
- Benzyl-*m*-phenylenediamine (MELDOLA and COSTE), 1889, T., 597.
- Benzyl-*m*- and -*p*-phenylenediamines, oxidation of a mixture of (MELDOLA and COSTE), 1889, T., 598.
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- α*-Bromoisobutyranilide (BISCHOFF), 1891, A., 828.
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- Bromodianthranyls**, *di*- and *hexa*- (SACHSE), 1890, A., 638.
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- di-Bromo-3:5-diethoxytoluene** (HERZIG and ZEISEL), 1890, A., 1405.
- Bromodiethylasculetin** (WILL), 1884, A., 69.
- di-Bromodiethylsulphonemethane** (BAUMANN), 1887, A., 124.
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- hexa-Bromodihydrobenzene** (THEURER), 1888, A., 1085.
- Bromodihydronaphthalene** (AGRESTINI), 1883, A., 346.
- di-Bromodihydroxydiphenylamine** (MÜHLAU), 1884, A., 594.
- Bromodihydroxyphenylbutyrolactone** (FISCHER and STEWART), 1892, A., 1447.
- di-Bromo-3:6-dihydroxy-1:4-terephthalic acid** (BÜNINGER), 1888, A., 954.
- Bromodihydroxyxanthone**, derivatives of (GRABBE and EICHENGRÜN), 1892, A., 1226.
- Bromodihydroxyxylene** [m.p. 126°] (WISCHN), 1891, A., 74.
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- di-Bromodimethyl diketone** (*dibromodiacetyl*) (FITTIG, DAIMLER and KELLER), 1889, A., 491.

- p* - Bromodimethylamidoazobenzene (GOLDSCHMIDT and BARDACH), 1892, A., 980.
- di*Bromo-1:3-dimethylantracene (ELBS), 1890, A., 511.
- Bromodimethylbenzoic acids and their salts (GUNTER), 1884, A., 1847.
- aa-di*Bromo-*aa*-dimethylglutaric anhydride (AUWERS and JACKSON), 1890, A., 1099.
- di*Bromodimethylheptamethylene (KIPPING and PERKIN), 1889, P., 145.
- di*Bromodimethylmalonamide (FREUND), 1884, A., 1124.
- di*Bromo-4:6-dimethylpyridine (*di*-*bromolutidine*) (PFEIFFER), 1887, A., 845.
- Bromo-1':4'-dimethylquinoline (KNORR), 1887, A., 160.
- Bromo-2:5-dimethylthiophene, *di*- and *tri*- (PAAL), 1885, A., 1206.
- Bromodi- β -naphthyl ketone oxide (CLAUS and RUPPEL), 1890, A., 510.
- Bromodi- β -naphthylamines, *tetra*- and *octo*- (RIS), 1888, A., 57.
- tetra*Bromodinaphthylene oxide (HODGKINSON and LIMPACH), 1891, T., 1100.
- di*Bromodioxydehydronicotine (PINNER), 1892, A., 1497.
- Bromodiphenic acid (CARNELLEY and THOMSON), 1885, T., 591; P., 88.
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- p* - Bromodiphenylcarbamide (GOLDSCHMIDT and MOLINARI), 1888, A., 1284.
- di*Bromodiphenylcarboxylic acid [m.p. 212°] (HOLM), 1883, A., 922.
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- tetra*Bromodiphenylfurfuran (PERKIN and SCHLOESSER), 1889, P., 163; 1890, T., 954.
- Bromodiphenylguanidine *dicyanide* (HIRSCH), 1888, A., 947.
- Bromodiphenylmethane, preparation of (HENDERSON), 1891, T., 731.
- di*Bromodipiperonylideneacetone (SALKOWSKI), 1891, A., 1475.
- di*Bromo-*p*-dipropylbenzene (KÜRNER), 1883, A., 322.
- tetra*Bromodipropylcarbinyllic acetate (DIÉFF), 1887, A., 353.
- per*Bromodithienyl (NAHNSEN), 1885, A., 51.
- hexa*Bromodithienyltrichlorethane (PETER), 1884, A., 1001.
- di*Bromoditoly, product of the oxidation of (CARNELLEY and THOMSON), 1885, T., 592; P., 88.
- di*Bromo-*p*-ditolytetrazine (RUHEMANN), 1889, P., 168; 1890, T., 51.
- Bromodurene (GISSMANN), 1883, A., 334.
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- di*Bromodurene (JACOBSEN), 1888, A., 137.
- s-di*Bromethylene (*acetylenic dibromide*), molecular refraction and dispersion of (GLADSTONE), 1891, T., 295.
- tri*Bromofluoran (MEYER and HOFFMEYER), 1892, A., 970.
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- Bromoform (GÜNTHER), 1887, A., 787.
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- Bromoformberberine (GAZE), 1890, A., 1012.
- Bromofulminuric acids (EHRENBERG), 1885, A., 1192.
- Bromofumaric acid (v. BANDROWSKI), 1883, A., 313.
- β -Bromofurfuran (CANZONERI and OLIVERI), 1887, A., 658.
- Bromofurfurans, *di*- and *tetra*- (HILL), 1883, A., 912.
- aa-di*Bromofurfuran- β -sulphonic acid (HILL and PALMER), 1889, A., 386.
- Bromofurfurylacrylic and bromofurfurylbromacrylic acids (GIBSON and KAHNWEILER), 1890, A., 960.
- Bromofurfurylbromethylene and bromofurfuryl*di*bromopropionic acid (GIBSON and KAHNWEILER), 1890, A., 960.

- di*Bromoglutaric acid (AuwERS and BERNHARDT), 1891, A., 1191.
- Bromoguanidine (HIRSCH), 1888, A., 947.
- Bromoguanine (FISCHER and REENE), 1884, A., 467.
- tri*Bromohemimellithene (JACOBSEN), 1887, A., 36.
- Bromohemipinimide (TUST), 1892, A., 1210.
- γ -Bromoheptioic acid (FITTIG and SCHMIDT), 1890, A., 589.
- γ -Bromoisheptioic acid (FITTIG and ZANNER), 1890, A., 590.
- Bromohexadecylene (KRAFT and REUTER), 1892, A., 1163.
- di*Bromohexahydrophthalic acid (*trans*) (V. BAeyer), 1892, A., 1216.
- di*Bromohexahydroterephthalic acid (V. BAeyer), 1887, A., 370.
- di*Bromohexoic acid, decomposition of (FITTIG and HILLERT), 1892, A., 960.
- p-di*Bromohomocuminic acid (*di*bromocumylacetic acid), oxidation products of (FILETI and BASNO), 1891, A., 105; (FILETI and BONISCONTRO), 1892, A., 604.
- di*Bromohydrazinesulphonic acid (LIMPRICHT), 1889, A., 398.
- Bromohydrazobenzene [m.p. 63°] (JANOVSKY and ERB), 1886, A., 1024.
- p*-Bromohydrazobenzene [m.p. 115°] (JANOVSKY and ERB), 1887, A., 479.
- di*Bromohydrazobenzene (JANOVSKY and ERB), 1887, A., 479.
- p*-Bromohydrazobenzene-*o*-carboxylic acid (PAAL), 1892, A., 68.
- Bromo-*p*-hydrazotoluene (JANOVSKY and ERB), 1887, A., 479.
- o*-Bromohydrindone (MIRSCH), 1892, A., 1222.
- Bromohydrindones, *m*- and *p*- (V. MILLER and RONDE), 1890, A., 1139.
- di*Bromohydrindone (HAUSMANN), 1889, A., 1173.
- tetra*Bromohydrindone (ROSER and HASELHOFF), 1888, A., 1304.
- Bromohydrodicoumarin (DYSON), 1886, P., 250; 1887, T., 67.
- di*Bromohydrolapachol (HOOKER), 1892, T., 643; P., 125.
- Bromohydrocoumaric acid (V. BAeyer and RUPE), 1890, A., 876.
- di*Bromo-*p*-hydroxybenzoic acid (BALBIANO), 1888, A., 1125.
- constitution of (ALESSI), 1886, A., 65.
- p*-Bromo- α -hydroxy-*n*- and -*iso*-butyric acids (KOLBE), 1883, A., 573; (MELLIKOFF), 1885, A., 650.
- di*Bromohydroxycarboxytolylglyoxylic acid (*di*bromohydroxymethylbenzoyldicarboxylic acid) (WILL and LEYMANN), 1886, A., 253.
- Bromohydroxycoumaric acid (OST), 1883, A., 792.
- tri*Bromohydroxyconiine (V. HOFMANN), 1885, A., 563.
- Bromohydroxycymene (MAZZARA), 1886, A., 1017.
- tri*Bromohydroxydiketodihydropentene (NEF), 1890, A., 1272.
- penta*Bromohydroxydiketohexene (ZINCKE and KEGEL), 1890, A., 1109.
- 5-Bromo-4-hydroxy-2:6-dimethyl-*m*-diazine (PINNER), 1887, A., 1054.
- Bromo- ω -hydroxyethylpiperonylcarboxylic acid and anhydride (PERKIN), 1890, T., 1025.
- Bromohydroxyhydromuconic acid, lactone of (RUHEMANN and DUFTON), 1891, T., 753.
- Bromohydroxyindone (ROSER and HASELHOFF), 1888, A., 1304; (MELDOLA and HUGHES), 1890, T., 400; P., 58.
- benzylamide, hydrazone, hydrazone-hydrazide, and β -naphthylamide of (MELDOLA and HUGHES), 1890, T., 403; P., 58.
- Bromohydroxyketoindonaphthene (ZINCKE and GERLAND), 1888, A., 1199, 1200.
- di*Bromohydroxyketohydrindenecarboxylic acid (ZINCKE and GERLAND), 1888, A., 1199.
- Bromohydroxy- β -methyleoumarilic acid (V. RECHMANN and COHEN), 1884, A., 1332.
- Bromohydroxy- β -methyleoumarone (V. RECHMANN and COHEN), 1884, A., 1332.
- 5-Bromo-4-hydroxy-6-methyl-2-ethyl-*m*-diazine (PINNER), 1887, A., 1054.
- Bromohydroxymethylhydrohydrastinine methiodide (FREUND and DORMEYER), 1891, A., 1520.
- $\beta_1\beta_1\gamma_1$ -*tri*Bromo- α_1 -hydroxy- γ_1 -methyljulolidine (REISSERT), 1892, A., 498.
- β_1 -Bromo- α_1 -hydroxy- γ_1 -methyljuloline (REISSERT), 1892, A., 497.
- Bromo- α_1 -hydroxy- γ_1 -methyljulolines, β_1 -mono- and $\beta_1\gamma_1$ -*di*- (REISSERT), 1892, A., 497.
- di*Bromohydroxymethylphthalic anhydride (WILL and LEYMANN), 1886, A., 253.
- Bromohydroxy- α -naphthaquinone [m.p. 202°] (MILLER), 1885, A., 667.

- Bromohydroxy- α -naphthaquinone** [m.p. 197°], action of hypochlorous and hypobromous acids on (ZINCKE and GERLAND), 1888, A., 1198.
- Bromohydroxy- α -naphthaquinoneoximide** (ZINCKE and GERLAND), 1887, A., 838.
- di*Bromohydroxynaphthaquinone** (ARMSTRONG and STREATFIELD), 1886, P., 232.
- Bromo- β -hydroxypiperonylethylmethyl ketone** (*bromopiperonylactyl methyl ketone*) (OELKER), 1891, A., 1476.
- γ -Bromo- α -hydroxy- γ -phenylbutyric acid** (BIEDERMANN), 1892, A., 471.
- di*Bromohydroxyphenylbutyronitrile** (FISCHER and STEWART), 1892, A., 1447.
- Bromohydroxyphenylcrotonic acid** (FISCHER and STEWART), 1892, A., 1447.
- 5-Bromo-4-hydroxy-2-phenyl-6-methyl-*m*-diazine** (PINNER), 1887, A., 1053.
- 2:5-*di*Bromo-4-hydroxyisopropylbenzoic acid** (FILETI and BONISCONTRO), 1892, A., 604.
- di*Bromohydroxypyridine and its salts** (LIEBEN and HARTINGER), 1883, A., 871; (KOENIGS and GEIGY), 1884, A., 1195; (FISCHER and RENOUF), 1884, A., 1370.
- Bromo-1-hydroxyquinoline** [m.p. 119°] (SCHMITT and ENGELMANN), 1888, A., 67.
- 4-Bromo-1-hydroxyquinoline** [m.p. 124°] (CLAUS and HOWITZ), 1892, A., 354.
- 4:3-*di*Bromo-1-hydroxyquinoline** (CLAUS and POSSELT), 1890, A., 522; (CLAUS and HOWITZ), 1892, A., 354.
- 3:4:4'-*tri*Bromo-1-hydroxyquinoline** (SRPEK), 1890, A., 177; (CLAUS and HEERMANN), 1891, A., 83.
- 4-Bromo-3-hydroxyquinoline hydrobromide** (CLAUS and HOWITZ), 1892, A., 353.
- di*Bromo-3-hydroxyquinoline** (CLAUS and POSSELT), 1890, A., 523.
- Bromo-2'-hydroxyquinoline**. See Bromocarbostyryl.
- Bromo-1:4-hydroxyquinolinesulphonic acid** (CLAUS and POSSELT), 1890, A., 522.
- tri*Bromohydroxyquinone** (BARTH and SCHRÖDER), 1885, A., 520.
- Bromohydroxytetrahydronaphthoic acid**, lactone of (v. BAERYER, SCHÖDER and BESEMFELDER), 1892, A., 192.
- Bromohydroxytetrahydroquinoline hydrochloride** (SRPEK), 1890, A., 177.
- di*Bromohydroxytrimethyluracil** (HAGEN), 1888, A., 582.
- di*Bromoketoindonaphthene** (ROSER), 1887, A., 729.
- Bromo- α -keto- γ -methyl- β -ethyljuloline** (KAYSER and REISSERT), 1892, A., 883.
- Bromoketones**, formation of, by the action of bromine on the alcohols of the ethyl series (ETARD), 1892, A., 809.
- Bromolapachol** (PATERNO), 1883, A., 211; (HOOKER), 1892, T., 638; P., 125.
- Bromolapachone** (HOOKER), 1892, T., 638; P., 125.
- Bromolauric acid** (AUWERS and BERNHARDI), 1891, A., 1190.
- Bromolevulinic acids, α -mono- and α -*di*-** (WOLFF), 1891, A., 1187.
- β -Bromolevulinic acid** (WOLFF), 1887, A., 464.
- $\beta\beta$ -*di*Bromolevulinic acid** (WOLFF), 1891, A., 417.
- di*Bromolimettin** (TILDEN), 1892, T., 348; P., 33.
- Bromomaleic acid**, action of, aniline on (MICHAEL), 1886, A., 698.
- di*Bromomaleic acid** (CIAMICIAN and SILBER), 1884, A., 1117.
- Bromomaleic bromide** (HILL and SANGER), 1884, A., 1805.
- di*Bromomaleinimide** (CIAMICIAN and SILBER), 1884, A., 1116; 1885, A., 993.
- di*Bromomaleinmethylinide** (DE VARDIA), 1889, A., 57.
- di*Bromomalenamide** (FREUND), 1884, A., 1124.
- di*Bromomalonic acid** (MASSOL), 1892, A., 1140.
- Bromomercuric acid** (NEUMANN), 1889, A., 1050.
- Bromomesitol** (SCHRÄMM), 1886, A., 451.
- di*Bromomesitylene** from coal-tar oil (SUSSENGUTH), 1883, A., 469.
- Bromomesitylenic acid**, preparation of, from bromomesitylene (SUSSENGUTH), 1883, A., 469.
- di*Bromomesitylenic acid**, and its salts (SUSSENGUTH), 1883, A., 470.
- Bromomesitylic bromide** (SCHRÄMM), 1886, A., 451.
- di*Bromomethane**. See Methylenic bromide.
- di*Bromomethanesulphonic acid**, barium salt of (ANDREASCH), 1886, A., 786.
- di*Bromomethoxybenzoic acid** (PERATONER), 1887, A., 487.
- di*Bromomethoxymethylphthalic acid** (WILL and LEYMAN), 1886, A., 254.
- p*-Bromomethoxyphenylacetic acid** (SALKOWSKI), 1889, A., 1174.

- p*-Bromomethylaniline (MELDOLA and STREATFIELD), 1889, T., 418, 425, 433; P., 98.
- Bromomethylchloroform (HENRY), 1884, A., 978.
- Bromomethylenephthalide (GABRIEL), 1885, A., 165.
- Bromo-*o*-methylstyrene (CLAUS and PIESZCZEK), 1887, A., 240.
- Bromomethylethoxazolone (HANNOT), 1891, A., 1108.
- di*Bromo- β -methylglutaric acid (AUVERS and BERNHARDI), 1891, A., 1191.
- tri*Bromomethylglyoxaline (WALLACH), 1883, A., 911.
- Bromomethylhydrodrastinine (FREUND and DORMEYER), 1892, A., 223.
- Bromomethylisatoid (v. BAEYER and OECONOMIDES), 1883, A., 201.
- Bromomethyloxindoles, *mono*- and *di*- (COLMAN), 1888, P., 96; 1889, T., 3, 7.
- p*-Bromomethyl- α -phenotriazine (BISCHLER and BRODSKY), 1890, A., 152.
- di*Bromomethylpyridine (LADENBURG), 1883, A., 672.
- 3-Bromo-1-methylquinoline, and its derivatives (ALT), 1889, A., 1214.
- Bromo-2'- and -4'-methylquinolines (MAGNANINI), 1887, A., 1113; 1890, A., 1322.
- Bromomethylquinolones (DECKER), 1892, A., 879, 880, 881.
- di*Bromomethylsuccinic acid, and its salts (CLAUS), 1883, A., 44.
- Bromomethyltarconic acid (ROSER), 1888, A., 1116.
- ω -Bromo-1:3:4-methyltetrahydropyridylethylene (EICHENGUN and EINHORN), 1891, A., 66.
- 3-Bromo-1-methyltetrahydroquinoline (ALT), 1889, A., 1214.
- Bromomethylthiazolecarboxylic acid (WOHMANN), 1891, A., 226.
- tri*Bromomethylthiophen (*tribromothiolin*) (MEYER and KREIN), 1884, A., 1182.
- γ -*tri*Bromomethylthiophen, action of nitric acid on (MULLERT), 1885, A., 229.
- di*Bromo- β -methylthiophen (GERLACH), 1892, A., 830.
- tri*Bromomethylthiophens, oxidation of (CIAMICIAN and ANGELI), 1892, A., 302.
- Bromomethyluracil (BEHREND), 1886, A., 338.
- Bromomimetites (DITTE), 1883, A., 783.
- Bromomyristic acid (HELL and TWERDOMEDOFF), 1889, A., 955.
- di*Bromomyristicin (SEMMLER), 1890, A., 1150.
- Bromonaphthalenes. See Naphthalene.
- Bromonaphthalenesulphonic acid. See Naphthalenesulphonic acid.
- Bromonaphthanilide (MILLER), 1885, A., 667.
- 3'-Bromo-1:2-naphthaquinol (CLAUS and PHILIPSON), 1891, A., 462.
- Bromonaphthaquinone. See Naphthaquinone.
- di*Bromonaphthastyril (EKSTRAND), 1886, A., 715.
- Bromo- α -naphthoic acid (EKSTRAND), 1886, A., 715.
- 1:3'-*di*Bromo-2-naphthoic acid (CLAUS and PHILIPSON), 1891, A., 462.
- Bromonaphthol. See Naphthol.
- Bromonaphtholactone (EKSTRAND), 1886, A., 716.
- Bromo- β -naphthol-3'-sulphonic acid, derivatives of (ARMSTRONG and ROSSITER), 1889, P., 72.
- 1:3-*di*Bromo-2-naphthonitrile (CLAUS and PHILIPSON), 1891, A., 462.
- Bromonaphthylamine. See Naphthylamine.
- Bromonaphthylene-ethenylamidine (PRAGER), 1885, A., 1239.
- di*Bromo- α -naphthylpropionic acid (BRANDIS), 1889, A., 1200.
- Bromonicotinic acids (CLAUS and COLLISCHONN), 1887, A., 159; (SREPK), 1890, A., 177; (CLAUS), 1892, A., 876.
- Bromonitro-*p*-acetamidoisobutylbenzene (HEIZER), 1889, A., 44.
- Bromonitracetamidophenylacetoneitrile (GABRIEL), 1883, A., 64.
- m*-Bromo-*p*-nitracetanilide (CLAUS and SCHEULEN), 1891, A., 504.
- 3:5:4-*di*Bromonitracetanilide (CLAUS and WEIL), 1892, A., 1205.
- Bromonitro- β -acetonephthalide, preparation of (PRAGER), 1885, A., 1239.
- Bromonitracetonaphthalides (MELDOLA), 1883, T., 9; 1885, T., 499.
- ω -Bromo-*o*-nitracetophenone (GEVEKOM), 1884, A., 445.
- ω -Bromo-*p*-nitracetophenone, derivatives of (ENGLER and ZIELKE), 1889, A., 505.
- 5-Bromo-3-nitraceto-*o*-toluidide (NIEWENTOWSKI), 1892, A., 838; (CLAUS and BECK), 1892, A., 1207.
- 5-Bromo-*di*nitraceto-*o*-toluidide (NIEWENTOWSKI), 1892, A., 838.
- 3-Bromo-5-nitraceto-*p*-toluidide (HAND), 1886, A., 1018.

- Bromonitracetylpyrrolines, *mono-* and *di-* (CIAMICIAN and SILBER), 1887, A., 597; 1888, A., 61.
- Bromodinitro-*tri*-amidobenzene (JACKSON and BANCROFT), 1890, A., 982.
- p*-Bromo-*m*-nitro-*p*-amidobenzophenone (SCHOPFF), 1892, A., 336.
- eso*Bromonitramido-*isobutyl*benzene (GELZER), 1889, A., 44.
- Bromo-*o*- and *p*-amidophenetoils, *mono-* and *di-*, and their salts (STAEDEL), 1883, A., 663.
- Bromonitramidophenylacetic acid (GABRIEL), 1883, A., 64.
- p*-Bromo-*o*-nitraniline (NOLTING and COLLIN), 1884, A., 1013.
- m*-Bromo-*p*-nitraniline (CLAUS and SCHEULEN), 1891, A., 565.
- 3:5-*di*Bromo-4-nitraniline (CLAUS and WEIL), 1892, A., 1205.
- Bromonitranisole (STAEDEL), 1883, A., 662.
- 5:2-Bromonitrazobenzene (WILLGERODT), 1888, A., 949.
- di*Bromonitrethane, action of zinc ethyl on (BEWAD), 1889, A., 1128.
- β -Bromo-*m*-nitroethylbenzamide (ELFELDT), 1892, A., 213.
- Bromonitrisatin (DORSCH), 1886, A., 360.
- p*-Bromo-*m*-nitrobenzaldehyde (SCHOPFF), 1892, A., 336.
- p*-Bromo-*m*-nitrobenzamide and -anilide (GROHMANN), 1891, A., 305.
- Bromonitrobenzene. See Benzene.
- 1:3:6-Bromonitrobenzenesulphonic acid (LIMPRICHT), 1885, A., 1234.
- Bromonitrobenzoic acid. See Benzoic acid.
- Bromonitrobenzonitrile. See Benzonitrile.
- Bromo-*m*-nitrobenzophenones, *mono-* and *di-* (SCHOPFF), 1892, A., 336.
- di-p*-Bromodinitrobenzophenone (SCHOPFF), 1892, A., 336.
- Bromodinitrobenzyl methyl ketone (JACKSON and MOORE), 1889, A., 781; 1890, A., 773.
- Bromonitro-*p*-*iso*-butyl-acetanilide and -aniline (GELZER), 1889, A., 44.
- Bromonitrocamphor (CAZENEUVE), 1885, A., 270.
- α -Bromo-*m*-nitrocinnamaldehyde (NAAR), 1891, A., 563.
- α -Bromo-*o*-nitrocinnamic acid (NAAR), 1891, A., 563.
- α -Bromo-*m*-nitrocinnamic acid (STUART), 1886, T., 361; (NAAR), 1891, A., 564.
- 4:6-Bromonitro-*o*-cresol (CLAUS and JACKSON), 1889, A., 128.
- 3:5:6-Bromodinitro- ψ -cumene (JACOBSEN), 1889, A., 39.
- 2:5-Bromonitrocymene (FILETI and CROSA), 1889, A., 493.
- 3-Bromonitrocymene (MAZZARA), 1886, A., 1016; (FILETI and CROSA), 1889, A., 494.
- 3-Bromodinitrocymene (MAZZARA), 1886, A., 1016.
- 2-Bromodinitrocymene (FILETI and CROSA), 1889, A., 493.
- di*Bromodinitrocymenes (CLAUS, RAPS, HERFELDT and BERKEFELD), 1891, A., 1200, 1201.
- Bromonitrodiazo-. See Diazo-, under Azo.
- di*Bromo-*mono-* and *tri*-nitrodiphenyl (LELLMANN), 1883, A., 343.
- p*-Bromo-*o*-nitrodiphenylsemithiocarbamide (BISCHLER and BRODSKY), 1890, A., 152.
- di*Bromodinitro-*p*-dipropylbenzene (FILETI), 1891, A., 1022.
- Bromonitrohydroxyuracil (BEHREND), 1887, A., 920.
- Bromodinitromesitylene (SÜSSENGUTH), 1883, A., 470.
- Bromonitromethane, action of zinc ethyl on (BEWAD), 1889, A., 1128.
- Bromo-*di*-nitromethane (KACHLER and SPITZER), 1883, A., 961.
- di*Bromodinitromethane (LOSANITSCH), 1884, A., 277.
- formation of (LOSANITSCH), 1883, A., 564.
- chlorine-derivatives of (LOSANITSCH), 1884, A., 1107.
- 6:2:4-Bromodinitromethylaniline (NORTON and ALLEN), 1885, A., 1214.
- 4'-Bromo-4-nitro-1'-methylquinoline (CLAUS and DECKER), 1889, A., 723.
- Bromonitronaphthalenes. See Naphthalene.
- 2:4 1-Bromonitronaphthol and its salts (MELDOLA), 1885, T., 501; P., 71.
- Bromonitro- α -naphthylamine (MELDOLA), 1885, T., 500; P., 71; (ARMSTRONG and ROSSITER), 1891, P., 187.
- Bromonitronaphthylene-ethenylamidine (PRAGER), 1885, A., 1239.
- Bromonitrophenetoils (STAEDEL), 1883, A., 662.
- di*Bromonitrophenetol (JACKSON and BENTLEY), 1892, A., 1132.
- tri*Bromodinitrophenetol (JACKSON and WARREN), 1891, A., 1026.
- Bromonitrophenols. See Phenol.
- Bromonitrophenyl benzyl ethers (ROLL and HOLZ), 1885, A., 1209.

- Bromo-*m*-nitrophenyl ethyl ether** (*bromo-*m*-nitrophenetol*) (LINDNER), 1885, A., 775.
- m*-Bromodinitrophenylacetic acid** (JACKSON and ROBINSON), 1890, A., 378.
- p*-Bromo-*o*-nitrophenylhydrazine** (BISCHLER and BRODSKY), 1890, A., 151.
- 3-Bromo-6-nitrophenylphenylhydrazine** (WILLGERODT), 1888, A., 949.
- tri*-Bromonitropropane** (ASKENASY and MEYER), 1892, A., 1064.
- tetra*-Bromo-1:3-*di*-nitropropane** (KEPLER and MEYER), 1892, A., 1062.
- Bromonitropropylene** (ASKENASY and MEYER), 1892, A., 1064.
- Bromonitroquinolines, 2:2' and 2:3'** (CLAUS and VIS), 1889, A., 281.
- 3:4-Bromonitroquinoline** (LA COSTE), 1883, A., 90; (CLAUS and ZUSCHLAG), 1890, A., 267.
- 1'-Bromonitroquinolines** (CLAUS and POLLITZ), 1890, A., 521.
- Bromonitrosoquinoline, and its derivatives** (EDINGER and BOSSUNG), 1891, A., 580.
- Bromonitroquinones** (GUARESCI and DACCAMO), 1885, A., 891.
- Bromodinitroresorcinol** (FÈVRE), 1883, A., 788; (TYPEK), 1883, A., 917.
- di*-Bromonitroresorcinol** (FÈVRE), 1883, A., 783.
- Bromonitrosoazobenzene** (WILLGERODT), 1888, A., 949.
- Bromonitrosoacryacrol, constitution of** (MAZZARA), 1890, A., 884.
- di*-*o*-Bromonitrosophenol** (FISCHER and NEPP), 1888, A., 456.
- Bromonitrostrychnine** (BRUKWITZ), 1890, A., 1329.
- di*-Bromonitroterephthalic acids** (FILETI and CROSA), 1891, A., 1056.
- di*-Bromodinitrothiophen** (KREIS), 1884, A., 1314.
- Bromonitrothymol** (MAZZARA), 1890, A., 753.
- o*-Bromo-*p*-nitrothymol** (MAZZARA and DISCALZO), 1886, A., 1019; (MAZZARA), 1890, A., 366, 602.
- 8:6-Bromonitrotoluene** (BENTLEY and WARREN), 1890, A., 485.
- di*-Bromedinitrotoluene [2:5:4:6]** (CLAUS), 1888, A., 587.
- di*-Bromodinitrotoluene** (PALMER), 1889, A., 890.
- 4:5-Bromonitro-*o*-toluic acid** (CLAUS and BROC), 1892, A., 1207.
- 2:1(*t*)-Bromonitro-*p*-toluic acid** (FILETI and CROSA), 1887, A., 37.
- Bromonitro-*p*-toluic acids, 2:3-, 2:5-, and 2:6-** (CLAUS and HERBANY), 1892, A., 174.
- 3:6-Bromonitro-*p*-toluic acid** (FILETI and CROSA), 1889, A., 495.
- Bromonitro-*p*-toluic acids, 5:2- and 5:3-** (CLAUS and BEYSEN), 1892, A., 178.
- 2:5-Bromonitro-*p*-toluidine** (CLAUS and HERBANY), 1892, A., 174.
- 5:3-Bromonitro-*p*-toluidine** (HAND), 1886, A., 1018.
- 2:6-Bromonitro-*p*-toluonitrile** (CLAUS and HERBANY), 1892, A., 175.
- Bromodinitrotrianilidobenzene** (JACKSON and BANCROFT), 1890, A., 982.
- di*-Bromo-*di*- and *tetra*-nitroxanilides** (MIXTER and WILCOX), 1888, A., 142.
- 3:4-*di*-Bromo-5-nitro-*o*-xylene** (TOHL), 1886, A., 57.
- 4:6-Bromonitro-*m*-xylene** (AHRENS), 1892, A., 1437.
- 4-Bromo-2:6-*di*-nitro-*m*-xylene** (LELLMANN and JUST), 1891, A., 1245.
- Bromonitro-*m*-xylenesulphonic acid and its salts** (LIMPRICHT), 1885, A., 1234.
- Bromopianic acid** (TUST), 1892, A., 1209.
- Bromopianoximic anhydride** (TUST), 1892, A., 1210.
- Bromopianyl-hydrazobenzene, -phenylhydrazide, and -phenylmethylhydrazone** (TUST), 1892, A., 1210.
- α*-Bromopalmitic acid** (HELL and IORDANOFF), 1891, A., 820.
- Bromopentanes, *tri*- and *tetra*-** (HELL and WILDERMANN), 1891, A., 162, 584.
- Bromo-*o*- and -*p*-phenetidines, *mono*- and *di*-, and their salts** (STAEDEL), 1883, A., 668.
- Bromophenols.** See Phenol.
- Bromophenol-*o*-sulphonic acid** (ALLAIN LEGRAND), 1889, A., 1184.
- p*-Bromo-*α*-phenotriazine** (BISCHLER and BRODSKY), 1890, A., 152.
- Bromophenylacetic acid, action of, on ethylic acetoacetate** (WELTNER), 1884, A., 746; 1885, A., 793.
- an apparent exception to the Le Bel-van't Hoff hypothesis (EASTFIELD), 1891, T., 71.
- α*-Bromophenyl-*β*-amidocrotonic acid.** See *α*-Brom-*β*-amidocrotonic acid.
- di*-Bromophenylbenzoic acid.** See *di*-Bromodiphenylcarboxylic acid.
- p*-Bromophenyl-*γ*-bromothiophen** (KUES and PAAL), 1887, A., 239.
- γ*-Bromophenylbutyric acid** (JAYNE), 1883, A., 472; (FITTIG and MORRIS), 1890, A., 891.

- Bromophenylbutyrolactone** (FITTIG, OBERMULLER and SCHIFFER), 1892, A., 987.
- Bromophenylcarbamide** (BERTRAM), 1892, A., 467.
- Bromophenylorotonic acid** (KÖRNER), 1888, A., 868.
- Bromophenylcysteine**, action of acetic anhydride on (BAUMANN), 1885, A., 514.
- triBromophenyldithienyl** (RENARD), 1890, A., 1420.
- triBromophenylic benzoate** and its nitro-derivative (DACCOMO), 1885, A., 890.
- diBromophenylic carbonate** (LÖWENBERG), 1886, A., 789.
- Bromophenyllactic acid** (ERLENMEYER), 1883, A., 196.
- Bromophenyllactic acids**, optically active (ERLENMEYER), 1891, A., 1482.
- Bromophenylmethylfurfuran tetra-bromide** (PAAL), 1885, A., 249.
- Bromophenylmethylpyrazolone** (MÜLLENHOFF), 1892, A., 1246.
- Bromophenylmethylpyrazolones**, *mono*-, *di*-, and *tri*- (KNORR and DUDEN), 1892, A., 781.
- Bromophenyloctane** (*bromoctylbenzene*) (AERENS), 1887, A., 133.
- Bromophenylparaconic acid** (FITTIG and LEONI), 1890, A., 894.
- az-p-Bromophenyl-ald-phenylnaphthotriazine** (MELDOLA and FORSTER), 1891, T., 690.
- 1-p-Bromophenylpiperidine** (LELLMANN and JUST), 1891, A., 1244.
- m-Bromo-β-phenylpropionic acid** (GABRIEL), 1883, A., 195.
- Bromophenylpropylene**. See Bromallylbenzene.
- 4-Bromo-1-phenylpyrazole** (BALBIANO), 1890, A., 797.
- Bromo-1-phenylpyrazoles**, *di*- and *tri*- (BALBIANO), 1890, A., 797.
- 4-Bromo-1-phenylpyrazole-3:5-dicarboxylic acid** (BALBIANO), 1890, A., 1165.
- diBromo-2-phenylpyridinedicarboxylic acid** and its salts (SKRAUP and COBENZL), 1883, A., 1014.
- triBromophenylsalicylic acid** (ARBENZ), 1890, A., 893.
- p-Bromophenylsuccinamic acid** (HOOGWERFF and VAN DORP), 1891, A., 196.
- p-Bromophenylsuccinamide** (HOOGWERFF and VAN DORP), 1891, A., 196.
- diBromophenylsulphonamic acid**, barium salt of (TRAUBE), 1891, A., 569.
- Bromophenyluramidopropionic acids**, *mono*-, *di*- and *tri*- (HOOGWERFF and VAN DORP), 1891, A., 198.
- γ-Bromophenylvaleric acid** (FITTIG and STERN), 1892, A., 988.
- Bromophenylisovaleric acid** (FITTIG and LIEBMAN), 1890, A., 776.
- Bromophenylvalerolactone** (FITTIG and STERN), 1892, A., 987.
- triBromophloroglucinol** (BENEDIKT and HAZURA), 1885, A., 554; (HERZIG), 1886, A., 232.
- action of potassium iodide on (BENEDIKT and v. SCHMIDT), 1883, A., 1119.
- acetate (ZINCKE and KEGEL), 1890, A., 1109.
- hexaBromophloroglucinol dibromide** (HAZURA and BENEDIKT), 1886, A., 52.
- Bromophthalic acids and anhydride**. See Phthalic acid and anhydride.
- Bromophthalide** (RACINE), 1886, A., 549.
- diBromophthalide** (GUARESCHI), 1884, A., 842.
- diBromo-o-phthalimide** (LE BLANC), 1889, A., 257.
- Bromopiperonal**, derivatives of (OELKER), 1891, A., 1474.
- Bromopiperonaldoxime** (OELKER), 1891, A., 1475.
- Bromopiperonylacrylic acids**, *tri*- and *tetra*- (PERKIN), 1891, T., 160, 163; P., 27.
- triBromopiperonylethylene** (PERKIN), 1891, T., 161; P., 27.
- Bromopiperonylpropionic acid** (WEINSTEIN), 1885, A., 665.
- diBromopiperonylvaleric acid** (*diBromopiperhydryonic acid*), and derivatives of (WEINSTEIN), 1885, A., 664.
- Bromopiperonylvinyl methyl ketone** (OELKER), 1891, A., 1475.
- Bromoprehnitene**, action of sulphuric acid on (TÜHL), 1892, A., 968.
- β-Bromopropaldehyde** (LEDERER), 1891, A., 37.
- diBromopropaldehyde** (ETARD), 1892, A., 809.
- triBromopropaldehyde** (NIEMIŁOWICZ), 1890, A., 861.
- 1:2:3-triBromopropane**. See Tribromhydrin.
- tetraBromopropane** (*isoallylene tetrabromide*) (GUSTAVSON and DEMJANOFF), 1889, A., 30.
- Bromopropiolic acid**, action of aromatic amines on (MABERY and KRAUSE), 1890, A., 371.
- Bromopropionic acids**. See Propionic acid.
- Bromopropylamines**. See Propylamine.
- γ-Bromopropylaminenitrobenzamide** (ELFELDT), 1892, A., 214.

- di*Bromopropylisocamylamine and its hydrobromide (PAAL), 1889, A., 118.
- Bromopropylbenzamides, β - and γ - (HIRSCH), 1890, A., 800; (GABRIEL and ELFFELDT), 1892, A., 212.
- di*Bromopropyl-*n*- and -*iso*-butylamines (PAAL), 1889, A., 117.
- di*Bromopropylcarbamides and its derivatives (ANDREASCH), 1884, A., 732; (PAAL and HEUPEL), 1892, A., 30; (PAAL), 1892, A., 578.
- Bromopropylcinnamoylamides, β - and γ - (ELFFELDT), 1892, A., 215.
- di*Bromopropylene (LESPLEAU), 1892, A., 420.
- α -Bromo-*n*- and -*iso*-propylenes (WISLICENUS, TEISLER and LANGBEIN), 1889, A., 236.
- Bromopropylencarbamide and its derivatives (ANDREASCH), 1884, A., 733; (PAAL), 1892, A., 578.
- di*Bromopropyl acetales, α - and $\alpha\beta$ - (ASCHAN), 1890, A., 1084.
- β -Bromopropyl-*m*-nitrobenzamide (ELFFELDT), 1892, A., 213.
- β -Bromopropylphthalimide (SEITZ), 1891, A., 1472.
- γ -Bromopropylphthalimide (GABRIEL and WEINER), 1888, A., 1292.
- Bromopropylthiocarbamide (LAUER), 1890, A., 1090.
- Bromopropylthiophen (RUFF), 1887, A., 804.
- p*-*di*Bromopropyltoluic acid, "oxidation products of (FILETI and BONISCONTRO), 1892, A., 604.
- tri*Bromopropyl-*o*-xylene (UHLHORN), 1890, A., 1249.
- 2-Bromopyridine (v. HOFMANN), 1883, A., 813; (CIAMICIAN and SILBER), 1885, A., 811.
- di*Bromopyridine (KOENIGS and GRIGY), 1884, A., 1195; (BLAU), 1889, A., 1212.
- Bromopyridine-2:3-dicarboxylic acid (CLAUS and COLLISCHONN), 1887, A., 169.
- Bromopyridine-3:4-dicarboxylic acid (EDINGER and BOSSUNG), 1891, A., 580.
- 3:5-*di*Bromopyridine-2:4:6-tricarboxylic acid (PFEIFFER), 1887, A., 844.
- tetra*Bromopyrocoll (CIAMICIAN and SILBER), 1884, A., 292.
- Bromopyrocresole oxides (SCHWARZ), 1888, A., 207.
- tri*Bromopyrogallol (WEBSTER), 1884, T., 205, 207.
- Bromopyromucic acids, *mono*- and *di*- (HILL and SANGER), 1884, A., 1305; (CANTONERI and OLIVIERI), 1885, A., 244, 1126; (HILL), 1885, A., 1125.
- Bromopyrotritaric acid (DIETRICH and PAAL), 1887, A., 658.
- di*Bromopyrrolinophthalide (ANDERLINI), 1889, A., 58.
- tri*Bromopyrrol-1-methylglyoxylic acid (DE VARDA), 1890, A., 390.
- di*Bromopyruvic acid, action of hydroxylamine on (SÖDERBAUM), 1892, A., 815.
- compounds of, with hydrazines (NASTVOGEL), 1889, A., 237.
- di*Bromo-pyuramide and -pyvureide (FISCHER), 1887, A., 918.
- tri*Bromopyvurine (FISCHER), 1887, A., 918.
- Bromoquinol, dimethyl ether of (NÖLTING and WERNER), 1891, A., 209.
- m*-*di*Bromoquinol (LING), 1892, T., 562; P., 105.
- di*Bromoquinoldicarboxylic acid (BÖNIGER), 1888, A., 954.
- di*Bromoquinoldisulphonic acid (GRAEBE and WELTNER), 1891, A., 1029.
- 1-Bromoquinoline-4-carboxylic acid (LELLMANN and ALT), 1887, A., 502.
- Bromoquinoline. See Quinoline.
- Bromoquinolinesulphonic acid. See Quinolinesulphonic acid.
- Bromoquinolinesulphonic bromide (CLAUS and POSSELT), 1890, A., 522.
- Bromoquinolinic acid (SRPEK), 1890, A., 177.
- m*-*di*Bromoquinone (HEINICHEN), 1890, A., 165; (LING), 1892, T., 561; P., 105.
- tetra*Bromoquinone (*bromanil*) (LING), 1887, T., 148; (GRAEBE and WELTNER), 1891, A., 1028.
- tetra*Bromo-*o*-quinone (ZINCKE), 1887, A., 808.
- di*Bromoquinone-chlor- and -phenol-imides (MÖHLAU), 1884, A., 594.
- di*Bromoreinol, diethyl ether of (HERZIG and ZEISEL), 1890, A., 1405.
- Brom- α -oreinoldichroin (BRUNNER and CHUTT), 1888, A., 1183.
- Bromoresorcinols, *mono*- and *di*- (ZEHENTER), 1887, A., 924.
- Bromoresindone (FISCHER and HEPP), 1891, A., 1045.
- di*Bromosalicylamide (SPILKER), 1890, A., 141.
- Bromosalicylic acids, substituted (PERATONER), 1887, A., 486.
- di*Bromosalicylic acid, constitution of (PERATONER), 1887, A., 487.
- di*Bromosalicylthiamide (SPILKER), 1890, A., 142.
- Bromosarcosinemesouric acid (MYLIUS), 1884, A., 1128.

- di*Bromosebacic acid, and its derivatives (CLAUS and SPEINKAULER), 1888, A., 133; (AUWER and BERNHARDI), 1891, A., 1191.
- Bromoshikimolactone (EIJKMAN), 1891, A., 920.
- Bromostearic acid (PREIS and RAYMAN), 1888, A., 425; (SEUBERT and SCHURMANN), 1887, A., 554.
- Bromostearic acid (PIOTROWSKI), 1890, A., 1396.
- α -Bromostearic acid (HELL and SADOMSKY), 1891, A., 1336.
- Bromostyrychnine (SHENSTONE), 1885, T., 140, 141; P., 5; (BECKURTS), 1885, A., 675, 911; (LOEBISCH and SCHOOP), 1886, A., 268. crystallography of (MIERS), 1885, T., 144; P., 5. action of nitric acid on (SHENSTONE), 1885, T., 141; P., 5. methyldioxide and methiodide (BECKURTS), 1890, A., 1329. physiological action of (BRUNTON), 1885, T., 143; P., 5.
- di*Bromostyrychnine (SHENSTONE), 1885, T., 141; P., 5; (BECKURTS), 1885, A., 675, 911.
- tri*Bromostyrychnine (BECKURTS), 1885, A., 675, 911.
- p*-Bromostyrene *di*bromide (SCHRAMM), 1891, A., 898. glycol (SCHRAMM), 1891, A., 898.
- di*Bromostyrene, action of bromine-vapour on (KINNICUTT and PALMER), 1884, A., 603.
- di*Bromosuccinyl (ANSCHÜTZ and WIRTZ), 1887, A., 934.
- Bromosuccinic acids. See Succinic acid.
- Bromosuccinimide (KUSSEROW), 1889, A., 1064.
- o*-Bromo-*m*-sulphobenzoic acid (FISCHER), 1892, A., 333.
- δ -Bromo- β -sulphopyromucic acid (HILL and PALMER), 1889, A., 386.
- 2-Bromoterephthalic acid (SCHULTZ), 1885, A., 1054; (FILETI), 1887, A., 52.
- di*Bromotetracetylbrazein (SCHALL and DRALLE), 1890, A., 997.
- Bromotetrahydrodiphenylic *di*bromide (BAMBERGER and LODTER), 1888, A., 604.
- tri*Bromotetraketohexamethylene (LANDOLT), 1892, A., 836.
- tetra*Bromotetraketohexamethylene (NEF), 1890, A., 1272.
- hexa*Bromotetramethylene (SADANÉFF), 1889, A., 1128.
- Bromotetramethylenecarboxylic acid (PERKIN and SINCLAIR), 1891, P., 191; 1892, T., 41.
- Bromo- α -tetraresorcinoldichroin ether (BRUNNER and CHUIT), 1888, A., 1182.
- Bromoterethylphloroglucinols (HERZIG and ZEISEL), 1890, A., 248.
- Bromotetric acid (MOSCHELES and CORNELIUS), 1888, A., 1272.
- μ -Bromothiazole (SCHATZMANN), 1891, A., 745.
- Bromothiophen (SCHLEICHER), 1886, A., 227.
- di*Bromothiophen, direct preparation of, from coal-tar benzene (MEYER and STADLER), 1885, A., 971.
- tri*Bromothiophen, and its sulphonic acid and anhydride (ROSENBERG), 1885, A., 1051.
- tetra*Bromothiophen, oxidation of (CIAMICIAN and ANGELI), 1892, A., 302.
- Bromothiophen-3-carboxylic acid (GATTERMANN and ROMER), 1886, A., 537.
- Bromothiophen-2:3-dicarboxylic acid (GERLACH), 1892, A., 831.
- Bromothiolen. See Bromomethylthiophen.
- 2-Bromothymol (CLAUS and KRAUSE), 1891, A., 899, 900.
- 6-Bromothymol, derivatives of (MAZZARA), 1890, A., 366.
- o*-Bromothymol, ethyl ether of (MAZZARA and VIGHI), 1890, A., 883.
- 6-Bromothymol methyl ether (MAZZARA), 1890, A., 366.
- Bromothymol-*o*- and *p*-sulphonic acids, *o*- and *p*- (CLAUS and KRAUSE), 1891, A., 899.
- β -Bromothymoquinol (MAZZARA and DISCALZO), 1886, A., 1020; (SOHNITER), 1887, A., 720.
- 2-Bromothymoquinone (MAZZARA), 1890, A., 753; (CLAUS and KRAUSE), 1891, A., 899.
- 5-Bromothymoquinones (SOHNITER), 1887, A., 720; (MAZZARA), 1890, A., 753.
- Bromothymoquinones, 2- and 5- (KEHRMANN), 1890, A., 367.
- Bromotoluene. See Toluene.
- Bromotoluenesulphonic acids. See Toluenesulphonic acids.
- Bromotoluic acid. See Toluic acid.
- m*-Bromo-*o*-toluidine (ALT), 1889, A., 1214.
- p*-Bromo-*m*-toluidine (CLAUS), 1892, A., 1201.
- 2 6-*di*Bromo-*p*-toluidine (CLAUS and HERBADNY), 1892, A., 175.
- m*-Bromo-*o*-toluidine-*m*-sulphonic acid (WYNNÉ), 1892, T., 1037; P., 155.
- Bromo-*o*-toluonitrile (NOURRISSON), 1887, A., 668.

- 4:6-*di*Bromo-*o*-toluonitrile (CLAUS and BECK), 1892, A., 1208.
- 2:6-*di*Bromo-*p*-toluonitrile (CLAUS and HERBANY), 1892, A., 175.
- 3:5-*di*Bromo-*p*-toluonitrile (CLAUS and SEIBERT), 1892, A., 176.
- Bromotoluphenanthrazine (HARTMANN), 1890, A., 976.
- 3-Bromotoluquinone (CLAUS and JACKSON), 1889, A., 128.
- 4-Bromotoluquinone (SCHNIFFER), 1887, A., 1036.
- Bromotoluquinones, *di*- and *tri*- (CANZONERI and SPICA), 1883, A., 330.
- tri*Bromotoluquinone, action of potassium hydroxide on (SPICA and MAGNANIMI), 1884, A., 175.
- Bromotolyl methyl ketone, *o*- and *m*- (CLAUS), 1891, A., 911.
- p*-Bromo-*m*-tolyl methyl ketone (SCHOFFE), 1892, A., 338; (CLAUS), 1892, A., 1200.
- p*-Bromo-*m*-tolyl methyl ketoxime (CLAUS), 1892, A., 1201.
- di*Bromo-*o*- and *p*-tolyl- α -amidopropionitrile (STEPHAN), 1887, A., 143.
- β -*di*Bromotolylbenzoic acid (CARNELLEY and THOMSON), 1886, P., 258; 1887, T., 90.
- 5-Bromo-3:4-tolylenediamine (BISTRZYCKI), 1890, A., 970.
- Bromotolylisecarbamide (HARTMANN), 1890, A., 975.
- di*Bromo-*p*-tolyl benzoate (SCHALL and DRALLM), 1885, A., 146.
- di*Bromotricarballylic acid (*di*Bromotricarballic acid) (GUINCHET), 1890, A., 594.
- di*Bromotriethylgallic acid (SCHIFFER), 1892, A., 715.
- Bromotrihydroxybenzophenone (GRAUBE and EICHENGRUN), 1892, A., 1225.
- hexa*Bromotriketohexamethylene (ZINCKE and KUEHL), 1890, A., 1109.
- di*Bromotriketohydronaphthalene hydrate (ZINCKE and GERTLAND), 1888, A., 291.
- di*Bromotriketopentamethylene hydrate (LANDOLT), 1892, A., 836.
- tri*Bromotriketopentamethylene (HANTZSCH), 1888, A., 1191, 1192; (LANDOLT), 1892, A., 886.
- Bromotrimethylcarbinol (*tert*-butyl alcohol) (GUARENCHI and GARZINO), 1888, A., 437; (GARZINO), 1889, A., 951.
- Bromotrimethylenedisulphone sulphides, *di*- and *hexa*- (CAMPS), 1892, A., 593.
- hexa*Bromotrimethylenetrisulphone (CAMPS), 1892, A., 592.
- Bromotrimethylethylammonium salts, *di*- and *tri*- (BODE), 1892, A., 806.
- α -Bromotrimethylglutaric anhydride (AUWERS and MEYER), 1890, A., 480.
- di*Bromo-2:4 6-trimethylpyridine (PEIFFER), 1887, A., 844.
- Bromotrimethylvinylammonium salts (BODE), 1892, A., 807.
- tri*Bromotriphenylfurfuran (JAPP and KLINGEMANN), 1890, T., 713.
- Bromotriphenylmethane, action of, on ethyl sodomalonate (HENDERSON), 1887, T., 224.
- reactions of (ELBS), 1884, A., 1030.
- Bromotriphenylmethylpyrrolone, crystallography of (TUTTON), 1890, T., 728.
- tri*Bromotrithienyl (RENARD), 1891, A., 428.
- tri*Bromotritolylbenzene (CLAUS), 1890, A., 770.
- Bromumbelliferones, *mono*- and *di*-, ethyl and methyl ethers of (WILL and BECK), 1886, A., 881, 882.
- Bromoundecylenic acid (BRUNNER), 1886, A., 1011.
- Bromouracilcarboxylic acids (BEHREND), 1887, A., 920.
- di*Bromovaleraldehyde (LIEBEN and ZEISEL), 1886, A., 783.
- Bromovaleric acid, decomposition of (FITTIG and URBAN), 1892, A., 960.
- di*Bromovaleric acid (*di*bromomethylacetic acid) (OTT), 1891, A., 1453.
- Bromovaleric acids, γ -*mono*- and *di*- (FITTIG and FRANKEL), 1890, A., 585.
- α -Bromoisovaleric acid (VOLHARD), 1888, A., 129; (SCHLICHTER), 1892, A., 427.
- Bromovalerolactone (FITTIG and URBAN), 1892, A., 960.
- di*Bromovalerolactone (WOLFF), 1885, A., 1124.
- Bromovanadinates (DITTE), 1888, A., 783.
- tri*Bromovinylbenzoic acid (ROSER and HASELHOFF), 1888, A., 1304.
- Bromo-*p*-vinylphenol *di*bromide (EIGEL), 1887, A., 1110.
- Bromowagnerites (DITTE), 1883, A., 648.
- Bromoxanthine (FISCHER and REUBEN), 1884, A., 407.
- di*Bromoxanthone (*di*bromodiphenylene ketone oxide) (PERKIN), 1883, T., 194.
- tri*Bromoxanthone (ARBENZ), 1890, A., 893.
- Bromoxybenzene derivatives (BENEDIKT), 1883, A., 984.

- Bromoxybromocomenic acid** (MENNEL), 1883, A., 657.
- Bromoxylene.** See Xylene.
- Bromo-*p*-xylenesulphonamide** (JACOBSEN), 1885, A., 144.
- di*Bromo-*p*-xylenesulphonamide** (MOODY and NICHOLSON), 1890, T., 977.
- Bromoxylenesulphonic acids.** See Xylenesulphonic acids.
- di*Bromo-*p*-xylenesulphonic chloride** (MOODY and NICHOLSON), 1890, T., 977.
- tri*Bromo-*o*-xylenol** (TÜHL), 1886, A., 57.
- Bromo-*p*-xylenol** (ADAM), 1884, A., 1329.
- 4,5-*di*-Bromo-*o*-xylidine** (TÜHL), 1886, A., 57.
- 5-*?*-*di*Bromo-*p*-xylidine** (NÜLTING and KOHN), 1886, A., 356.
- Bromo-*p*-xylol methyl ketone** (SCHÜPF), 1892, A., 338.
- Bromoxy-2'-methylquinoline** (KNORR and ANTRICK), 1885, A., 274.
- tri*Bromoxy-4'-methylquinoline** (COMSTOCK and KOENIGS), 1884, A., 1383.
- Bromoxynaphthaquinonesulphonic acid**, potassium salt of (ARMSTRONG and STREATFIELD), 1886, P., 232.
- 2'-Bromoxyquinoline.** See Bromocarbo-styryl.
- Bromoxytribromophenol** (WERNER), 1885, A., 658.
- Bronze**, process for phosphorising (WHITING), 1884, A., 936.
- Weiller's silicon- (MÜLLER), 1885, A., 308.
- implements used by the miners of Peru (BOUSSINGAULT), 1883, A., 691.
- statues, cause of the blackening of the patina of (HASSACK), 1885, A., 1270.
- Bronze-coloured surface on iron**, process for producing (MAYER), 1884, A., 127.
- Bronzes**, Indian, and their patina, some analyses of (ARCHE and HASSACK), 1885, A., 100.
- Japanese, analyses of (MARQUARD), 1885, A., 204.
- Bronzite** (WEISBACH), 1883, A., 432.
- from South Africa, composition of (ROSCOE), 1885, A., 132.
- Brookite** (KUNZ), 1892, A., 1055.
- from Beura, Ossola (STRÜVER), 1891, A., 527.
- from Magnet Cove, Arkansas (PENFIELD), 1886, A., 989; (DANA), 1887, A., 116.
- Broom** (*Genista pilosa*), analysis of, and of its ash (PETERMANN), 1884, A., 207.
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- Brucite** (WEINBACH), 1883, A., 1061.
- from Cogne, Val d' Aosta (FRIEDEL), 1883, A., 1061; 1884, A., 162.
- from the Tyrol (v. FOULLON), 1890, A., 339.
- from the Ural (LÖSCH), 1887, A., 345.
- Brücke's acid** (*oxyprotosulphonic acid*) (MALY), 1885, A., 824.
- Brushwood**, food value of (STUTZER), 1892, A., 1511.
- Bryonin**, detection of (JOHANNSON), 1885, A., 606.
- Buchu leaves** (SHIMOYAMA), 1888, A., 1205.
- Building stones**, decay of (WALLACE), 1883, A., 1036.
- Bulbocapnine** (FREUND and JOSEPHI), 1892, A., 1366.
- Bunsen-battery.** See Electrochemistry.
- Bunte's salt** (*sodium ethylthiosulphate*), preparation and properties of (OTTO and RÜSSING), 1892, A., 799.
- Buratite.** See Aurichalcite.
- Burette** for solutions which are easily reduced, and which attack india-rubber (GAWALOWSKI), 1885, A., 835.
- float for opaque liquids (REY), 1891, A., 1288.
- jet (LEYBOLD), 1887, A., 688.
- Burettes**, manufacture and correction of (OSTWALD), 1883, A., 619.
- improvements in (REID), 1892, A., 1027.
- Burner**, Bunsen, a modified (SHENSTONE), 1885, T., 378; P., 51.
- for spirit (BARTHEL), 1892, A., 1386.
- new laboratory (TECLU), 1892, A., 768.
- simple, for monochromatic light (NOAK), 1886, A., 14.
- Burners**, new (GRÜGER), 1890, A., 106.
- "**Bumping**" in distillation, method of avoiding (REISMANN), 1888, A., 547; (MARKOWNIKOFF), 1888, A., 1155.
- isoButaconic acid** (FITTIG and KRAENCKER), 1890, A., 875.
- Butaldehyde** (JUSLIN), 1885, A., 138.
- condensation of (RAUPENSTRAUCH), 1887, A., 794.
- condensation of, with succinic acid (FITTIG and SCHMIDT), 1890, A., 588.
- Butaldehyde**, α -*di*chloro- α -*di*bromo- (NATTERER), 1883, A., 965.
- tri*chloro- (NATTERER), 1883, A., 966.
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- iso*Butaldehyde, preparation of, free from acetone (FOSSEK), 1884, A., 37.
- polymeric modification of (PERKIN), 1883, T., 86; (BARBAGLIA), 1887, A., 461.
- action of aniline on a mixture of acetaldehyde and (v. MILLER), 1887, A., 974.
- condensation of aniline and, with methylal (v. MILLER and KINKELIN), 1887, A., 957.
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- action of glycol on (LOCHER), 1888, A., 670.
- condensation of, with phenylenediamines (LASSAR-COHN), 1890, A., 138.
- action of zinc and ethylic chloracetate on (REFORMATSKY), 1892, A., 1300.
- action of quinaldine on (BRUNNER), 1887, A., 975.
- condensation of, with succinic acid (FITTIG and ZANNER), 1890, A., 589.
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- dihydric alcohols derived from (SWOBODA and FOSSEK), 1891, A., 31.
- iso*Butaldehyde, chlor- (BROCHET), 1892, A., 1292.
- thio- (BARBAGLIA), 1889, A., 120.
- Para**isobutaldehyde* (PERKIN), 1883, T., 86.
- condensation of, with aniline (v. MILLER and PLOCHL), 1892, A., 1192.
- action of sulphur on (BARBAGLIA), 1889, A., 120.
- iso*Butaldoxime (PETRAČZEK), 1883, A., 569.
- Butane, absorption coefficient of, in water (HENRICH), 1892, A., 1043.
- dinitro-, and its salts (CHANCE), 1883, A., 915; 1885, A., 647.
- iso*Butane, tribromo- (NORTON and WILLIAMS), 1887, A., 712.
- tert.*-Butane, nitro- (BEWAD), 1891, A., 653.
- Butanecarboxylic acid. See Butyric acid.
- Butanedicarboxylic acid. See Adipic acid, Dimethylsuccinic acid, Ethylsuccinic acid, Methylsuccinic acid, Methylglutaric acids, Propylmalonic acid, *iso*Propylmalonic acid.
- Butanedisulphonic acid (MAUZELIUS), 1888, A., 321.
- iso*Butanedisulphonic acid, barium salt of (GUARESCHI and GARZINO), 1888, A., 436.
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- p*-Butenylanisols, molecular refraction and dispersion of (GLADSTONE), 1891, T., 295.
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- iso*Butenyltolylene-*o*-diamine (HINSBERG), 1887, A., 817.
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- p*-**isobutylbenzoic acid**, and its derivatives (PAHL), 1884, A., 1010; (KELBE and PFEIFFER), 1886, A., 878.

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- iso**Butylisobutylideneamine (BERG), 1892, A., 1173.
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- 4-**iso**Butyl-2:6-dimethylhexahydropyridine (JAECKLE), 1888, A., 1104.
- 4-**iso**Butyl-2:6-dimethylpyridine (ENGELMANN), 1886, A., 260.
- 4-**iso**Butyl-2:6-dimethylpyridine-3:5-dicarboxylic acid (ENGELMANN), 1886, A., 260.
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- iso**Butylene, action of bromine on (NORTON and WILLIAMS), 1887, A., 712.
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- α -**iso**Butylenepyridine (STOEHR), 1891, A., 81.
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- ψ -Butylenic bromide, dichloro- (NEWBURY), 1884, A., 295.
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- α -Dextrin** (SCHULZE), 1884, A., 284.
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- Dextrose** (*grape-sugar*, *D-glucose*), anhydrous, from aqueous solution (HESS), 1883, A., 175.
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- Dextrose** (*grape-sugar*, *d-glucose*), configuration of, and its isomerides (FISCHER), 1891, A., 1173, 1444.
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- Dextrose** (*grape-sugar*, *d-glucose*), action of alkalis on (URECH), 1884, A., 1112.
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- isoDulcitol* (*rhamnose*), oxidation of (FISCHER and TAFEL), 1887, A., 652; (WILL and PETERS), 1889, A., 952.
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- Galactose**, identity of, with cerebrose (BROWN and MORRIS), 1889, P., 167; 1890, T., 57; (THERMELDER), 1890, A., 121.
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- Glycerose** and its derivatives (FISCHER and TAFEL), 1887, A., 651; 1888, A., 358, 1264.
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- β -Inosite** (*mater-o-dumbosc*) and its derivatives (MAQUENNE), 1890, A., 355; (COMBES; GIRARD), 1890, A., 471.
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- Irisin** (WALLACH), 1887, A., 26.
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- Lactose** (*milk-sugar*) (KENT and TOLLENS), 1884, A., 980; 1885, A., 647.
- non-identity of, with arabinose (SCHEIBLER), 1884, A., 1287.
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- Lactose** (*milk-sugar*), oxidation of (FISCHER and MEYER), 1889, A., 485.
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- Chlorobromobenzoic acids (WILLGERODT and SALZMANN), 1889, A., 985.
- d*-Chlorodibromo-*n*-butane (NEWBURY), 1884, A., 295.
- ψ -Chlorobromocarbostyryl (DECKER), 1892, A., 630.
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- tri*Chlorobromofurfuran (HILL and JACKSON), 1890, A., 601.
- Chlorobromohydroxyacrylic acid (MABERY and SMITH), 1890, A., 27.
- d*-Chlorodibromoketohydrindene (ZINCKE and FRÖHLICH), 1887, A., 955.
- penta*Chlorobromoketopentene (ZINCKE and KUSTER), 1890, A., 1256.
- Chlorobromomethane (*methylene chlorobromide*) (HENRY), 1886, A., 43.
- Chlorodibromomethane (DYKON), 1883, T., 36, 37.
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- 2-Chloro-1:3'-*d*-bromonaphthalene (CLAUS and PHILIPSON), 1891, A., 462.
- β -Chloro- α -bromonaphthalene (GUARESCHI), 1889, A., 614.
- Chlorobromonaphthalenes (GUARESCHI and BIGINELLI), 1887, A., 1113.
- p*-Chlorobromo- α -naphthaquinone (GUARESCHI and BIGINELLI), 1887, A., 1114.
- 3'-Chloro-1-bromo- β -naphthol (ARMSTRONG and ROSSITER), 1889, P., 72; 1891, P., 33.
- 1-Chloro-6-bromo- β -naphthylamine (ARMSTRONG and ROSSITER), 1891, P., 33.
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- Chlorobromonitroquinone (GARZINO), 1890, A., 1108.
- Chlorobromonitrotetraphthalic acid (WILLGERODT and WOLFIEN), 1889, A., 966.
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- 4-Chloro-5-bromonitro-*m*-xylene (CLAUS and GRONWEGG), 1891, A., 921.
- "*tri*Chloro-*m*-*d*-bromoxybenzene" (BENEDIKT), 1883, A., 984.
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- 4-Chloro-5-bromophthalic acid (CLAUS and GRONWEGG), 1891, A., 921.
- p*-Chlorobromophthalide (GUARESCHI and BIGINELLI), 1887, A., 1111.
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- d*-Chlorobromopyromucic acids (HILL and JACKSON), 1890, A., 601.
- d*-Chlorobromopyruvic acid (HANTZSCH), 1890, A., 132.
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- Chlorobromotetraphthalic acid (WILLGERODT and WOLFIEN), 1889, A., 966.
- d*-Chlorodibromotetrahydroxydiphenyl (BENEDIKT), 1883, A., 985.
- d*-Chlorodibromotetraketohexamethylene (NEF), 1890, A., 1271.
- α -Chloro-*p*-bromothymoquinol (SCHNITTER), 1887, A., 720.
- Chlorobromotoluenes (WILLGERODT and SALZMANN), 1889, A., 986.
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- 2 Chloro-5-bromo-*p*-toluic acid (CLAUS and DAVIDSEN), 1892, A., 173.
- 4-Chloro-5-bromo-*m*-xylene and 4:5-dichloro-3-bromo-*m*-xylene (CLAUS and GROENEWEG), 1891, A., 921.
- 2:4-diChloro-5:6-di-bromo-*m*-xylene (KUCH), 1890, A., 1248.
- Chlorobromo-*p*-xylenes, and their derivatives (WILLGERODT and WOLFIEN), 1889, A., 965.
- d*.Chlorobrucine (BRUCKERTS), 1890, A., 1330.
- α -*di*Chlorobutaldehyde (NATTERER), 1883, A., 965.
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- Chloroisobutaldehyde (BROCHER), 1892, A., 1292.
- tetra*Chloroisobutane (WILLGERODT and DURR), 1887, A., 570.
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- penta*Chlorobutinenecarboxylic acid (ZINCKE and KUSTER), 1888, A., 1278.
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- δ -Chlorobutylamine (GABRIEL), 1892, A., 131.
- Chloroisobutylamines, *mono*- and *di*-(BERG), 1892, A., 1172.
- p*-Chloroisobutylbenzene (v. DOBRZYCKI), 1888, A., 369.
- Chloroisobutylene (SCHESCHUKOFF), 1884, A., 1276.
- di*Chloro- ψ -butylenic *di*/bromide (NEWBURY), 1881, A., 295.
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- per*Chlorobutyl alcohol *perchlorosebacate* (HEHRING), 1887, A., 801.
- γ -Chlorobutyramide (HENRY), 1886, A., 216.
- α -*di*Chlorobutyranilide (RUCHENNER and SCHRAMM), 1888, A., 502.
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- γ -Chlorobutyric chloride (HENRY), 1886, A., 216.
- $\alpha\beta$ -*di*Chlorobutyric chloride (ZEISEL), 1886, A., 1007.
- Chlorobutyrimidoether hydrochloride (PINNER), 1884, A., 1292.
- γ -Chlorobutyronitrile (HENRY), 1886, A., 215; (GABRIEL), 1890, A., 1221.
- Chlorocaffeine (FISCHER and REESE), 1881, A., 466.
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- α -Chlorocamphorsulphonic chloride (MARSH and COUSINS), 1891, T., 978.
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- p*-Chlorocarbostyryl (*p*-chloro-2'-oxyquinoline) (EINHORN and LAUCH), 1888, A., 501.
- β -Chlorocarbostyryl (FRIEDLÄNDER and WEINBERG), 1888, A., 351.
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- α -Chlorocinnam-aldehyde and -aldoxime (NAAR), 1891, A., 562.
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- Chlorocinnoline (BUSCH and KLETT), 1892, A., 1194.
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- o*-Chlorocumylacrylic acid (WIDMAN), 1891, A., 69.
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- monoChloro- and ϵ -dichloro- α - δ -diketopentane-carboxylic acids** (HANTZSCH), 1889, A., 854.
- hexaChlorodiketotetrahydrobenzene** (ZINCKE and KUSTER), 1888, A., 1277.
- triChlorodimethylacetal** (MAGNANIMI), 1887, A., 28.
- triChlorodimethylamidophenylquinone-imide** (MÖHLAU), 1884, A., 595.
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- 4-Chloro-2:6-dimethylpyridine** (4-chloro-2:6-lutidine) and its derivatives (CONRAD and EPSTEIN), 1887, A., 501.
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- s*- α -diChlorodimethylsuccinamic acid** (OTTO and HOLST), 1890, A., 958.
- α -diChloro-*s*-dimethylsuccinic anhydride** (OTTO and HOLST), 1890, A., 957.
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- perChlorodiphenyl** (MERZ and WEITH), 1884, A., 589.
- p*-Chlorodiphenylamine** (IKUTA), 1888, A., 467.
- di-*p*-Chlorodiphenylcarbamide** (HEWITT), 1891, T., 212.
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- o*-diChlorodiphenylsulphone** (FRIEDEL and CRAFTS), 1887, A., 1101.
- tetraChlorodiphthalyl** (GRAEBE and GUYE), 1886, A., 882.
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- β -Chlorofluorescein** (GRAEBE and REE), 1886, T., 530.
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- γ -Chlorofurfurylacrylic acid** (MEHNE), 1888, A., 453.
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- β -Chloroglutaconic acid** (BURTON and V. PEUTHMANN), 1887, A., 467.
- tetraChloroglutaconic acid** (ZINCKE and FUCHS), 1892, A., 1463.
- pentaChloroglutaric acid** (ZINCKE), 1892, A., 1186.
- 3:5-diChloroglutazine** (*dichloro-4-amido-2:6-dihydroxyppyridine*) (STOKES and V. PEUTHMANN), 1887, A., 156.
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- hexaChlorohexamethylbenzene** (COLSON), 1886, A., 1016.
- p-Chlorohydrazobenzene** (HEUMANN and MENTHA), 1886, A., 875.
- p-Chlorohydrazobenzene-o-carboxylic acid** (PAAL), 1892, A., 68.
- m-Chlorohydrindone** (V. MILLER and ROEDE), 1890, A., 1139.
- p-Chlorohydrindone** (MIERSCH), 1892, A., 1222.
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- diChloro-p-hydroxybenzoic acid** (CLAUS and KIEMANN), 1883, A., 1112; (ZINCKE and WALBAUM), 1891, A., 710.
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- α -Chlorohydroxybutyro-o-toluide-o-tolylcarbamine** (RUGHEIMER and SOHRAMM), 1888, A., 503.
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- αβ-*di*Chloro-β-hydroxy-α-naphthyl-
phenylamine (ZINCKE and KEGEL),
1889, A., 268.
Chlorohydroxyoxydipropionic acid
(WILLGERODT and SCHIFF), 1890, A.,
959.
γγ-*hexa*Chloro-α-hydroxypentene cyan-
ide (ZINCKE and KÜSTER), 1890, A.,
1256.
γγ-*hexa*Chlorohydroxypentenecarb-
oxylic acid (ZINCKE and KÜSTER),
1890, A., 754.
Chlorohydroxyphenindulone (KEHR-
MANN and MESSINGER), 1891, A.,
747.
ββ-*di*Chloro-α-hydroxyphenylpyridone
and its carboxylic acid (ZINCKE and
FUCHS), 1892, A., 448, 449.
Chlorohydroxyphenylthiazole (SCHATZ-
MANN), 1891, A., 745.
Chlorohydroxypicolinic acid. See Hydr-
oxypicolinic acid.
β-*tri*Chloro-α-hydroxypropenyl-amid-
oxime and -ethenylazoxime (RICH-
TER), 1892, A., 321.
α-*tri*Chloro-β-hydroxypropylacridine
(*methyl acridinechloral*) (BERNHUSEN
and MUHLERT), 1887, A., 849.
*tri*Chlorohydroxypropylamine (FAU-
CONNIER), 1888, A., 1265.
α-*tri*Chlorohydroxypropylpyrrolone
(EINHORN and LIEBRECHT), 1887,
A., 845.
*tri*Chloro-α-hydroxypropylquinoline
(EINHORN), 1886, A., 721.
*di*Chlorohydroxypyridine (KÖNIGS and
GEIGY), 1884, A., 1369.
Chlorohydroxyquinoline. See Hydroxy-
quinoline.
Chlorohydroxyisoquinolines, *mono*- and
di- (RUGHEIMER), 1886, A., 702.
2-Chloro-3-hydroxyquinolinequinone
and its anilide (ZINCKE), 1891, A.,
1251.
p-Chlorohydroxyquinone (STIEGLITZ),
1891, A., 156.
Chlorohydroxy-*o*-toluencarbostyryl. See
3'-Chloro-2':4'-*di*hydroxy-1-methyl-
quinoline.
*di*Chlorohydroxytrimethyluracil (HA-
GEN), 1888, A., 582.
Chlorohydroxyvaleric acids (MELI-
KOFF and PETRENKO-KRITSCHENKO),
1890, A., 736, 862; (MELIKOFF),
1888, A., 1177.
Chloroketodihydroquinolines, *tri*- and
tetra- (ZINCKE), 1891, A., 1250.
*tetra*Chloroketohydrindene (ZINCKE and
FRÖHLICH), 1887, A., 955.
Chloroketohydronaphthalene. See Keto-
hydronaphthalene.

- tri*Chloro- β -ketohydronaphthalene- α -oxime (ZINCKE and SCHMUCK), 1890, A., 1148.
- γ -Chloro- α -ketojuloline (REISSER), 1892, A., 881.
- Chloroketonaphthalene. See Ketonaphthalene.
- hexa*Chloroketopentene [m.p. 31°] (ZINCKE and KUSTER), 1889, A., 1278.
- $\gamma\gamma$ -*hexa*Chloroketopentene [m.p. 92°] (ZINCKE and KUSTER), 1889, A., 599; 1890, A., 754, 1255.
- penta*Chloro- α -ketophenyl- γ -piperidone (ZINCKE and FUCHS), 1892, A., 449.
- tri*Chloroketoquinoline (HEBE BRAND), 1889, A., 61.
- penta*Chloroketoquinoline, derivatives of (HEBE BRAND), 1889, A., 62.
- Chloroketotetrahydrobenzoic acids, *penta*- and *hexa*- (ZINCKE and WALBAUM), 1891, A., 708, 710.
- tetra*Chloroketotetrahydroquinoline hydrate (ZINCKE), 1891, A., 1252.
- tetra*Chloroketotrihydroxypentamethylenecarboxylic acid (ILANZSCH), 1890, A., 130.
- tri*Chlorolactic acid, preparation of glyoxal derivatives from (PINNER), 1884, A., 1298.
- Chlorolactic acids, decomposition products of the sodium salts of (REISSER), 1890, A., 1097.
- α -Chloro- γ -lipidine. See 2'-Chloro-4'-methylquinoline.
- tri*Chlorolimettin (TILDEN), 1892, T., 349.
- Chlorolevulinic acids, *mono*- and *di*- (SIESSL), 1889, A., 489.
- Chloro-2:6-lutidine. See Chloro-2:6-dimethylpyridine.
- di*Chloromaleinamic acid (CIAMICIAN and SILBER), 1890, A., 25.
- Chloromaleic acid (KAUDER), 1885, A., 652; (PERKIN), 1888, T., 706; P., 75.
- di*Chloromaleic acid and its anhydride (KAUDER), 1885, A., 652.
- Chloromaleic anhydride (PERKIN), 1888, T., 703; P., 75.
- di*Chloromaleic phenylimide and α - and β -*di*chloromaleic *tetrachlorides* (KAUDER), 1885, A., 652.
- Chloromaleinimide. See Maleinimide.
- di*Chloromaleinphenylimido-chloride and -dimethyl and -diethyl ethers (ANSCHÜTZ and BEAVIS), 1891, A., 1047, 1048.
- Chloromecenic acid and its salts (HILSEBEIN), 1885, A., 1202.
- per*Chloromecylene (OSI), 1883, A., 796.
- Chloromercuric acid (NEUMANN), 1889, A., 1050.
- tri*Chloromesitylene (FRIEDEL and CRAFTS), 1887, A., 1101.
- Chloromethane. See Methylic chloride.
- di*Chloromethane. See Methylenic dichloride.
- tri*Chloromethane. See Chloroform.
- tetra*Chloromethane. See Carbon *tetra*-chloride.
- Chloromethanedisulphonic acid (ANDREASCH), 1886, A., 787.
- Chloromethoxybenzoic acid (*chloranisic acid*) (SCHALL and DRALLE), 1885, A., 146.
- Chloromethoxybenzoic anhydride (*chloranisaldehyde*) (TIEMANN), 1891, A., 703.
- tetra*Chloromethoxyethane (MAGNANIMI), 1887, A., 28.
- 4'-Chloro-*p*-methoxy-2-methylquinoline (CONRAD and LIMPACH), 1888, A., 853.
- Chloromethoxyisoquinoline [m.p. 73°-71°] (GABRIEL), 1887, A., 62.
- Chloro-*p*-methoxytoluene (SCHALL and DRALLE), 1885, A., 146; (LIMPACH), 1889, A., 499.
- Chloromethyl *tetrachloropropyl* ketones, *di*- and *tri*- (ZINCKE and FUCHS), 1892, A., 1462, 1463.
- di*Chloromethyl chlorovinyl *o*-diketone (ZINCKE and RABINOWITSCH), 1891, A., 690.
- Chloromethylamidobenzoic acids (LA COSTE and BODEWIG), 1885, A., 793.
- diper*Chloromethylamidocyanidine and *diper*chloromethyl/iamidocyanidine (WEDDIGE), 1886, A., 321.
- penta*Chloromethylamido-*p*-diketohexene (ZINCKE and FUCHS), 1892, A., 419.
- α -Chloromethyl-*o*-amidostyrene (LIPP), 1885, A., 167.
- p*-Chloromethylaniline (MELOLA and STREATHFIELD), 1889, T., 436; P., 98.
- o*-Chloromethylbenzamide (GABRIEL), 1887, A., 1038.
- Chloro- α -methylcinnamic acid. See Chlorophenylcrotonic acid.
- Chloromethylcrotonic acid. See Chlorotiglic acid.
- Chloro-3-methyl-2':3'- or 4'-diethoxyquinoline (RUGHEIMER and HOFFMANN), 1886, A., 160.
- Chloromethylenephthalide (ZINCKE and COCKSEY), 1890, A., 786.
- tri*Chloromethylethylacetal (MAGNANIMI), 1887, A., 28.

- Chloro-5-methyl-1-ethylglyoxaline (*chlorozulethylin*) and its derivatives (WALLACH), 1883, A., 49.
- m*-Chloro- β -methylhydrindone (v. MILLER and ROHDE), 1890, A., 1140.
- α -Chloro- α -methylhydroxybutyric acid (MELIKOFF and PETENKO-KRITSCHENKO), 1890, A., 862.
- β -Chloro- α -methyl- α -hydroxybutyric acid (MELIKOFF), 1888, A., 1177.
- Chloromethylindene (v. MILLER and ROHDE), 1889, A., 984.
- Chloromethyl- ψ -isatin (LA COSTE and BODEWIG), 1885, A., 792.
- Chloro- α - and - β -methylnaphthalenes (SCHERLER), 1892, A., 494.
- Chloro- β -methylnaphthalenes, *di*-, *tri*- and *tetra*- (SCHERLER), 1892, A., 493.
- Chloro-2'-methyl- β -naphthaquinoline (EPHRAIM), 1892, A., 1488.
- di*Chloromethylloxindole (COLMAN), 1889, T., 4; P., 95.
- di*Chloromethylparaconic acid (FITTIG and MILLER), 1890, A., 587.
- tri*Chloromethylparaconic acid (FITTIG), 1888, A., 252; (FITTIG and MILLER), 1890, A., 586.
- tetra*Chloromethylphthalide (ZINCKE and COOKSEY), 1890, A., 786.
- Chloromethylpiaselenole (HINSBERG), 1890, A., 973.
- tri*Chloromethylpropylcarbinol (*trichloramyllic alcohol*) and its derivatives (v. GARZAROLI-THURNLACKER), 1881, A., 1118.
- tri*Chloromethylpurin (FISCHER), 1881, A., 996.
- Chloromethylpyridine. See Chloro- α -picoline.
- $\alpha\beta$ -*tri*Chloromethyl- γ -pyridone and its carboxylic acid (ZINCKE and FUCHS), 1892, A., 450.
- Chloromethylquinoline and its derivatives. See Methylquinoline.
- Chloromethylstilbene (SUDBOROUGH), 1892, A., 1224.
- tri*Chloromethylsulphonic chloride (McGOWAN), 1885, A., 367.
preparation of (BASSETT), 1886, A., 1000.
dissociation of (NÖLTING), 1883, A., 38.
action of ammonia on (McGOWAN), 1884, A., 1126.
- tri*Chloromethylsulphonylthiocarbamide (McGOWAN), 1887, T., 669.
- Chloromethylthiazolecarboxylic acid (WOMANN), 1891, A., 226.
- β -*di*Chloromuconamic acid (RUHEMANN and ELLIOTT), 1890, T., 931.
- di*Chloromuconic acid, reduction products of (v. BÄYER and RUPP), 1890, A., 875.
- β -*di*Chloromuconic acid and its amide (RUHEMANN and ELLIOTT), 1890, T., 932.
- di*Chloro- α -naphtha/*di*chloroquinol (CLAUS), 1886, A., 714.
- Chloronaphthalene. See Naphthalene.
- β -Chloronaphthalenedisulphonic acids (ARMSTRONG and WYNNE), 1890, P., 131.
- 2-Chloronaphthalene-1:6-disulphonic acid chloride (FOESLING), 1889, A., 276.
- Chloronaphthalenesulphonic acid. See Naphthalenesulphonic acid.
- di*Chloro-1:4-naphthaquinol (CLAUS), 1886, A., 714.
- Chloronaphthaquinone. See Naphthaquinone.
- anilide. See Naphthaquinone anilide.
- di*Chloronaphthaquinonecarboxylic acid (EKSTRAND), 1889, A., 152.
- Chloro- β -naphthaquinone derivatives (ZINCKE), 1887, A., 53.
- di*Chloro- α -naphthaquinone *di*chloride (CLAUS), 1890, A., 786.
- Chloro- β -naphthaquinone- α -oximes, *mono*- and *di*- (ZINCKE and SCHMIDT), 1890, A., 1146, 1147.
- 2:3-*di*Chloro- α -naphthaquinone-3'-sulphonic acid (CLAUS and VAN DER CLOET), 1888, A., 602.
- β -Chloronaphthaquinonetoluidides, *o*- and *p*- (CLAUS and MUELLER), 1886, A., 247.
- Chloronaphthoic acid. See Naphthoic acid.
- α -Chloronaphthoic trichloride (WOLFENSTEIN), 1888, A., 711; 1889, A., 615.
- β -Chloronaphthoic trichloride (RADE), 1889, A., 514.
- Chloronaphtholactone (EKSTRAND), 1889, A., 153.
- Chloronaphthol. See Naphthol.
- Chloro- β -naphthol-3'-sulphonic acid, derivatives of (ARMSTRONG and ROSSITER), 1889, P., 72.
- Chloro- α -naphthonitrile (EKSTRAND), 1884, A., 1361.
- Chloro- β -naphthonitriles, *mono*- and *di*-, and their derivatives (EKSTRAND), 1891, A., 932.
- 4'-Chloronaphthostyryl (EKSTRAND), 1889, A., 153.
- di*Chloronaphthostyryl (EKSTRAND), 1886, A., 715.
- Chloronaphthylamine. See Naphthylamine.

- β -Chloro- α -naphthylamine-2'-sulphonic acid** (CLEVE), 1892, A., 1179.
- α -Chloro- β -naphthylaminesulphonic acids** (the [1:2:4'], [1:2:3'], and [1:2:2'] acids) (ARMSTRONG and WYNN), 1889, P., 36, 48.
- Chloro- α - and - β -naphthylethylenes** (LEROY), 1892, A., 495.
- 6-Chloronicotinic acid** (v. FICHMANN and WELSH), 1885, T., 151.
- di*-Chloronicotinic acid** (SEYFFERTH), 1887, A., 158.
- o-di*-Chloro-*o*-nitroacetophenone** (GEYDKOFT), 1884, A., 445.
- Chloro-3-nitr-*p*-acetotoluidide** (ECKENROTH and DONNER), 1891, A., 195.
- 3:6-Chloronitr-*p*-acetotoluide** (CLAUS and BÜCHER), 1892, A., 173.
- Chloro-*tr*-nitranilidonaphthalene** (CLEVE), 1890, A., 626.
- p*-Chloro-*m*-nitraniline and its derivatives** (CLAUS and STIEBEL), 1887, A., 810.
- di*-Chloronitr-, 2:4:6-*tri*-chloro-3:5-*di*-nitr-, and 2:4:6-*tri*-chloro-3-nitr-anis-oil** (HUGOUNENQ), 1890, A., 210.
- Chloronitrazobenzene**. See Azobenzene.
- Chloronitroethylbenzenes** (ISTRATI), 1888, A., 260.
- o-di*-Chloronitroethylbenzoylcarboxylic acid** (ZINCKE and LATTEN), 1892, A., 1229; (ZINCKE and SCHARFENBERG), 1892, A., 1232.
- di*-Chloronitroethyl-*m*-diazine** (PINNER), 1889, A., 1007.
- Chloronitriles, volatility of** (HENRY), 1885, A., 1044.
- Chloronitrobenzaldehyde**. See Benzaldehyde.
- p*-Chloro-*tr*-nitrobenzanilide** (RAVEILL), 1884, A., 601.
- Chloronitrobenzene**. See Benzene.
- 4-Chloro-3-nitrobenzenesulphonic acid** (FISCHER), 1892, A., 182.
- 2-Chloro-5-nitrobenzenesulphonic acid** (CLAUS and MANN), 1891, A., 1188; (FISCHER), 1892, A., 182.
- Chloronitrobenzoic acid**. See Benzoic acid.
- Chloronitrobenzonitriles** (CLAUS and KURZ), 1888, A., 591.
- o*-Chloro-*p*-nitrobenzyl alcohol, anilide and methyl and ethyl ethers** (WITT), 1892, A., 444.
- bromide** (TIEMANN), 1891, A., 704.
- derivatives of** (WITT), 1892, A., 444.
- Chloronitrocamphor**. See Camphor.
- α -Chloro-*o*-, *m*- and *p*-nitrocinnamaldehydes** (NAAR), 1891, A., 562.
- m*-Chloro-*o*-nitrocinnamic acid and ketone** (EICHENGRUN and EINHORN), 1891, A., 1098.
- Chloro-*o*- and -*m*-nitrocinnamic acids** (NAAR), 1891, A., 561.
- 2:5-Chloronitro-*p*-cymene and 2-chloro-*di*-nitro-*p*-cymene** (FLEETLAND ('ROSA'), 1889, A., 493.
- Chloronitrocymenesulphonic acid** (CARBARA), 1890, A., 750.
- o-di*-Chloro-*p-di*-nitro-dibenzylamine and -dibenzylaniline** (WITT), 1892, A., 415.
- 2:3:5-*di*-Chloronitrodihydroterephthalic acid** (LEVY and ANDREOCCI), 1888, A., 1091.
- 3:4:3-*di*-Chloronitro 1:2-diketohydronaphthalene hydrate** (ZINCKE and SCHARFENBERG), 1892, A., 1232.
- allo-m*-Chloro-*o*-nitrodiphenylhydrazine, preparation of** (WILLGERODT and ELLON), 1891, A., 1361.
- m*-Chloro-*o*-nitrohydrazobenzene** (WILLGERODT and FERKO), 1888, A., 830.
- o*-Chloronitrohydroxyethylbenzoic acid, lactone of** (ZINCKE and LATTEN), 1892, A., 1230.
- 3:4'-*di*-Chloro-*di*-nitro-2'-hydroxy-3-methylquinoline** (RUGHEIMER and HOFFMANN), 1886, A., 160.
- m*-Chloro-*o*-nitro- β -hydroxyphenylethyl methyl ketone** (EICHENGRUN and EINHORN), 1890, A., 1128; 1891, A., 1099.
- m*-Chloro-*o*-nitro- β -hydroxyphenylpropionamide** (EICHENGRUN and EINHORN), 1890, A., 1127; 1891, A., 1100.
- m*-Chloro-*o*-nitro- β -hydroxyphenylpropionic acids** (EICHENGRUN and EINHORN), 1890, A., 1127; 1891, A., 1099.
- m*-Chloro-*o*-nitro- β -hydroxyphenylpropionic aldehyde** (EICHENGRUN and EINHORN), 1891, A., 1100.
- Chloro-*di*-nitromethane, reduction of** (RASCHIG), 1886, A., 323.
- di*-Chloro-*di*-nitromethane** (LOSANTSCH), 1884, A., 1108.
- tri*-Chloronitromethane**. See Chloropicrin.
- o*-Chloronitromethoxyethylbenzoic acid** (ZINCKE and LATTEN), 1892, A., 1231.
- di*-Chloronitromethylphthalide** (ZINCKE and LATTEN), 1892, A., 1231.
- 4'-Chloro-3'-nitro-2'-methylquinoline** (CONRAD and LIMPACH), 1888, A., 1111.
- β -Chloro- α -nitronaphthalene [1:2']** (ARMSTRONG and WYNN), 1889, P., 71.

- di*Chloro-*l*-nitronaphthalenes (CLEVE), 1890, A., 626.
- β -Chloro- α -nitronaphthalene-2'-sulphonic acid (CLEVE), 1892, A., 1478.
- $\alpha\beta$ -Chloronitro- β -naphthaquinone (ZINCKE and KEGEL), 1889, A., 266.
- 5-Chloro- δ -nitro- α -naphthoic acid (EKSTRAND), 1886, A., 156.
- 1:1'-4'-Chloronitronaphthoic acid (EKSTRAND), 1889, A., 53.
- β -Chloro-2'-nitronaphthol (GAFFS), 1892, A., 1229.
- Chloro-*l*-nitronaphthol (CLEVE), 1890, A., 627.
- Chloro-*l*-nitronaphthylamine (CLEVE), 1890, A., 626.
- Chloronitro-*l*-nitrosoazoxybenzene (WILLGERODT and MÜCHE), 1892, A., 455.
- tri*Chloronitrophenetol (LAMPERT), 1886, A., 616.
- Chloronitrophenol. See Phenol.
- m*-Chloro-*o*-nitrophenyl- β -bromopropionic acid (EICHENGRÜN and EINHORN), 1890, A., 1127.
- Chloronitrophenylethanes (ISTRATI), 1888, A., 260.
- di*Chloronitrophenylethylglyoxylic acid (ZINCKE and LATEN), 1892, A., 1229; (ZINCKE and SCHARFENBERG), 1892, A., 1232.
- tri*Chloronitrophenylic-*m*- and -*o*-nitrobenzoates (DACCOMO), 1885, A., 890.
- 1:4'-3'-Chloronitrophenylisoquinoline (GABRIEL), 1886, A., 631.
- di*Chloronitropyromucic acid (HILL and JACKSON), 1890, A., 601.
- Chloronitroquinones (GUARENCHI and DACCOMO), 1885, A., 891.
- 2:4:6-Chloro-*l*-nitroresorcinol (KEHRMANN), 1890, A., 211.
- Chloronitrosoazobenzene. See Azobenzene.
- p*-Chloro-*l*-nitrosoazoxybenzene (WILLGERODT and BOHM), 1891, A., 905.
- p*-*di*Chloro-*p*-*l*-nitrosobenzene (KEHRMANN), 1889, A., 245.
- Chloro-*p*-nitrosodiphenylamine (IKUTA), 1888, A., 468.
- Chloronitrosnaphtharesorcinol (v. KOSTANECKI), 1889, A., 887.
- di*Chloro-*l*-nitrosoditoluene (*his-chloronitrosylbenzyl*) (BEHREND and NISSEN), 1892, A., 1200.
- o*-*di*Chloro-*p*-*l*-nitrostilbene (WITT), 1892, A., 444.
- ω -Chloro-*o*-nitrostyrene (LIPP), 1881, A., 1030.
- m*-Chloro-*o*-nitrostyryl methyl ketone (EICHENGRÜN and EINHORN), 1891, A., 1099.
- o*-*di*Chloro-*l*-nitrosyldibenzyl (BEHREND and NISSEN), 1892, A., 1200.
- Chloronitrothiophen (ROSENBERG), 1886, A., 534.
- tri*Chloronitrotoluens. See Toluene.
- Chloronitro-*p*-toluic acid. See *p*-Toluic acid.
- 2-Chloro-5-nitro-*p*-toluidine and 2-chloro-6-nitro-*p*-toluidine (CLAUS and DAVIDSEN), 1892, A., 172.
- 3-Chloro-6-nitro-*p*-toluidine and 3-chloro-6-nitro-*p*-toluonitrile (CLAUS and BOCHER), 1892, A., 173.
- 2-Chloro-5-nitro-*p*-toluonitrile (CLAUS and DAVIDSEN), 1892, A., 172.
- 4-Chloro-5-nitro-*m*-xylene (CLAUS and GROENEVER), 1891, A., 921.
- 4-Chloro-6-nitro-*m*-xylene (AHRENS), 1892, A., 1437.
- 4:6-*di*Chloro-2:5-*l*-nitro-*m*-xylene (KUCH), 1890, A., 1248.
- 4 5-*di*Chloro-3 6-*l*-nitro-*o* xylene (CLAUS, RAUS, HERFELDT and BERKEFELD), 1891, A., 1201.
- 2:5-*di*Chloro-*l*-nitro-*p*-xylene (KLUGE), 1885, A., 1208.
- Chlorononane, from American petroleum (LEMOINE), 1884, A., 1106.
- Chloropal, analyses of (SMITH), 1881, A., 602.
- variety of, from Albemarle Co., Virginia (CHAPPELL), 1885, A., 228.
- di*Chloropararasaniline (HEUMANN and HEIDELBERG), 1886, A., 942.
- Chloropentamethylbenzene (TÖHL), 1892, A., 968.
- Chloro- α -pentaresorcinoldichroin ether (BRUNNER and CHUTT), 1888, A., 1182.
- Chloropentenyl alcohol. See Methylchlorallylcarbinol.
- Chloropentethylbenzene (ISTRATI), 1886, A., 231.
- penta*Chloropentolamide. See *penta*-chlorobutinenecarboxylamide.
- di*Chlorophenanthrone, reduction of (LACHOWICZ), 1881, A., 81.
- tri*Chlorophenetol (LAMPERT), 1886, A., 616.
- Chlorophenol. See Phenol.
- o*-*p*-*di*Chlorophenol-*o*-sulphonic acid, action of sulphuric acid on (GORDON), 1891, P., 64.
- tri*Chlorophenomallic acid. See Acetylacrylic acid, trichlor-.
- tri*Chlorophenoxyethylene (*phenyl trichlorovinyl ether*) (MICHAEL), 1886, A., 614.
- Chlorophenylacetoneitrile (MICHAEL and JEANPRÉTRE), 1892, A., 1088.

- di*-Chlorophenylamido- β -naphthol (ZINKE and KEELI), 1889, A., 293.
- p*-Chlorophenylisobutane (v. DOERZ-
GAT), 1888, A., 359.
- Chlorophenylbutyric acid (FAIRB and
MORRIS, 1890, A., 891; (v. MILLER
and ROHDE), 1890, A., 1119.
- di*-*p*-Chlorophenylcarbamide HEWITT,
1891, T., 212.
- Chlorophenylcrotonic acids. See
Phenylcrotonic acids.
- di*-Chlorophenylethylamine hydrochlor-
ide (MOHLAU, 1886, A., 941.
- Chlorophenylethanes, *o*-, *m*- and *p*-
(ISIRATI), 1885, A., 251.
- Chlorophenylhydrazine and its deriva-
tives. See Phenylhydrazine.
- Chlorophenyl benzoates (MUSSO), 1888,
A., 456.
o-, *m*- and *p*- (DACCOMO), 1892, A.,
308.
- phthalate (MUSSO), 1888, A., 456.
sulphide (MICHAELIS and GODHAUX),
1891, A., 715.
- di*thiocarbonate (DACCOMO), 1892, A.,
306, 307.
- sulfathate (DACCOMO), 1892, A., 308.
- tri*-Chlorophenyl *m*-nitrobenzoate
(DACCOMO, 1885, A., 890.
- p*-Chlorophenyl phenylsemithiocar-
bazide (HEWITT), 1891, T., 212.
- p*-Chloro-2'-phenylindazole (PAAL),
1891, A., 724.
- Chloro-2'-phenylindole (BISCHLER),
1892, A., 1466.
- Chlorophenylmethylenesulphone
(ORIO, 1888, A., 453.
- m*-Chloro- β -phenyl- α -methylpropionic
acid (v. MILLER and ROHDE), 1890,
A., 1140.
- di*-Chlorophenylmethylpyrazolonesul-
phonic chloride (MOLLENHOF), 1892,
A., 1246.
- Chlorophenylmethylsulphones, *mono*-
and *di*- (ORIO, 1890, A., 380, 381.
- Chlorophenylparaconic acid. See
Phenylparaconic acid.
- ac*-Chlorophenyl-*ac*'-phenylnaphtho-
triazine (NEUBOLA and FOLKERT),
1891, T., 690.
- Chlorophenylphenylsemithiocarbazides,**
o- and *p*- (HEWITT), 1891, T., 210,
212.
- p*-Chloro- β -phenylpropionic acid
(MIERSCH), 1892, A., 1222.
- di*-Chloro- β -phenylpropionic acids, α -
and β - (ERLENMEYER), 1883, A.,
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- Chloro- β -phenylpropionic acids, *m*-, *o*-,
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- ac* β -*tri*-Chloro- γ phenylpyridone and
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- o*-Chlorophenylsemicarbazide (HEWITT),
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- p*-Chlorophenylsulphonehydroxypro-
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- p*-Chlorophenylurazole (HEWITT), 1891,
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- Chlorophloroglucinols (HAZURA and
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- tri*-Chlorophloroglucinol (WERNER),
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- Chlorophthalic anhydride. See Phthalic
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- Chlorophthalic chloride (GRAEBE and
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- di*-Chlorophthalide (LE ROYER), 1887,
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- p*-*di*-Chlorophthalide (GUARDESCHI), 1886,
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- β -Chlorophthalimide (GRAEBE and
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- di*-Chlorophthalimide (LE ROYER), 1887,
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- Chlorophyllite from Loquidy, near
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- Chloro- α -picolines (*chloromethylpyrid-
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- di*-Chloro- α -picoline (COLLIE and
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- Chloropicolinic acid, [m.p. 180°] (SEYF-
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- Chloropicolinic acid [m.p. 168°],
*di*chloropicolinic acid and their salts
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- di*-Chloropiperazine (SCHMIDT and
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- Chloroplatinic acid (PIGEON), 1891,
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*hexa*Chloropropane (LEVY and CURCHOD), 1889, A., 1136.

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*tri*Chloropropenylquinoline (EINHORN and LEHNKEHING), 1888, A., 1208.

β -*di*Chloropropionic acid, and its derivatives (FROMME and OTTO), 1887, A., 912.

*tetra*Chloropropionic acid (MABERY and SMITH), 1890, A., 27.

α -*di*Chloropropionic anhydride (OTTO and HOLST), 1890, A., 1327.

α -*di*Chloropropionitrile, solid (OTTO and VOIET), 1887, A., 1024.
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*o-penta*Chloropropionylbenzoic acid (ZINCKE and COCKSEY), 1890, A., 785.

β - and γ -Chloropropylbenzamides (GABRIEL and HEYMANN), 1890, A., 1268; (GABRIEL and ELFELDT), 1892, A., 218.

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*di*Chloropyridinecarboxylic acid [$\text{Cl}_2 : \text{COOH} = 1 : 6 : 4$] (BEHRMANN and V. HOFMANN), 1885, A., 139.

*di*Chloropyridine- β -carboxylic acid (SEYFFERTH), 1887, A., 158.

2:6:*di*Chloropyridine-3:5-dicarboxylic acid (GUTHZEIT and DRESSEL), 1891, A., 940.

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*tetra*Chloropyrocatechol (ZINCKE), 1887, A., 808; (ZINCKE and KUSTER), 1888, A., 1278.

*per*Chloropyrocell, action of phosphorus pentachloride on (CIAMICIAN and SILBER), 1884, A., 176.

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*tri*Chloropyrogallol (WEBSTER), 1884, T., 205; (HANTZSCH and SCHNITER), 1887, A., 925.

Chloropyromecenic acid (HILSEBEIN), 1885, A., 1203.

*tri*Chloropyromucamide (HILL and JACKSON), 1890, A., 601.

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*di*Chloropyruvic acid (HANTZSCH), 1890, A., 132.

β -*di*Chloroquinazoline (ABT), 1888, A., 610.

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*m-di*Chloroquinol (KEHRMANN and TIENLER), 1890, A., 242.

*tetra*Chloroquinol (SUTKOWSKI), 1887, A., 42.

α -Chloro- β -quinolinecarboxylic acid (FRIEDLÄNDER and GÜHRING), 1884, A., 1020.

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1-Chloroquinoline-4-sulphonamide, -sulphonic acid and -sulphonic chloride (CLAUS and FOSSELT), 1890, A., 522, 523.

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*tri*Chloroquinonechlorimide and *mono*- and *di*-chloroquinonedianilides (ANDRESEN), 1884, A., 431.

*di*Chloroquinonedichlorimide (MÖHLAU), 1886, A., 941.

*di*Chloroquinonedihydrodicarboxylic acid (HANTZSCH and ZECKENDORF), 1888, A., 278.

*tri*Chloroquinoneimide hydrochloride (ANDRESEN), 1884, A., 431.

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2:4-*di*Chlorosalicylic acid (ZINCKE and WALBAUM), 1891, A., 711.

- 5,5'-*Chlorosuccinic acid* (EINHORN and KETEL, 1886, A., 704; (HECHT, 1891, A., 1418.
- 7-*Chlorosilicon-di-β-naphthylidiamide*, -*diphenylidiamide*, -*3-ditolyldiamide* and -*dixylyldiamide* HARDEY, 1886, P., 251; 1887, T., 45, 40, 41.
- Chlorosis* in plants (V. SACHS), 1887, A., 70.
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- Chlorostannic acid* ENGEL, 1886, A., 984; (SEIDEL, 1887, A., 554.
- Chlorostearic acids*, *mono*- and *di*- (PIOTROWSKI, 1890, A., 1806.
- Chlorostyrychnine* (SHENSTON), 1885, T., 141; P., 5.
- tri*-*Chlorostyrychnine* (SPOHR), 1891, A., 86.
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- Chlorosuccinic acid* (ANSHUTZ and BENNER), 1890, A., 363.
- Chlorosulphacetic acid* (ANDREASCH), 1886, A., 786.
- Chlorosulphonic acid*, new mode of formation of (BILLITZ and HEUMANN), 1883, A., 710.
- di*-*Chlorosulphopyromucic acid* (HILL and JACKSON), 1890, A., 601.
- Chloroterebic acid*, and some of its salts (ROSEN), 1884, A., 460.
- p-di*-*Chloroterephthalamide* (LEVY and CURRIE), 1889, A., 1179.
- Chloroterephthalic acid* (FILETI and CROCI), 1889, A., 496.
- di*-*Chloroterephthalic acid* (LEVY and ANDERSON), 1888, A., 841, 1091.
- p-di*-*Chloroterephthalic chloride* (LEVY and CURRIE), 1889, A., 1179.
- tri*-*Chlorotetraketohexamethylene hydrate* (LANDOLI, 1892, A., 835.
- tetra*-*Chlorotetraketohexamethylene* (NEFI), 1890, A., 1271; (LANDOLI), 1892, A., 836.
- tetra*-*Chlorotetra-methoxy- and -ethoxyquinhydrone* (KEHRMANN), 1891, A., 905.
- Chlorotetramine-chromic and -cobalt salts* (JORGENSEN), 1890, A., 1213, 1214.
- di*-*Chlorotetrapyrindinerhodum hydrochloride* (JORGENSEN), 1889, A., 352.
- μ*-*Chlorothiazole* (SCHATZMAN), 1891, A., 745.
- Chlorothiophen* (WEITZ), 1884, A., 1130.
- tri*-*Chlorothiophen*, and its derivatives (ROSENBERG), 1886, A., 534.
- tetra*-*Chlorothiophen tetrachloride* (WILLERDIT, 1886, A., 339.
- Chlorothiophenols*, *o*-, *m*-, and *p*- (DARCOM, 1892, A., 308.
- tri*-*Chlorothiophensulphonic anhydride* (ROSENBERG), 1886, A., 534.
- α*-*Chlorothymoquinol* (SCHNIER), 1887, A., 720.
- Chlorothymoquinones*, *o*- and *m*- (SCHNIER), 1887, A., 720; (MAZZARU), 1890, A., 753.
- Chlorotiglamide and chlorotiglic acids* (OTTO and HOLST), 1890, A., 958.
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- penta*-*Chlorotoluene* (SEELIG), 1885, A., 770.
- o*-*Chlorotoluene-p-sulphonamide* (PAYSAU), 1884, A., 72.
- p*-*Chlorotoluene-o-sulphonamide* (HEFFTER), 1884, A., 73.
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- Chlorotoluic acid*. See Toluic acid.
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- tri*-*Chlorotoluquinol* (CLAUS and RIEMANN), 1883, A., 1112.
- Chlorotoluquinone* [4-*o*-, 3-] (CLAUS and SCHWEITZER), 1886, A., 614; (SCHNIGER), 1887, A., 1036.
- tri*-*Chlorotoluquinone* (CLAUS and RIEMANN), 1883, A., 1112.
- Chloro-p-tolyl methyl ether*. See *Chloro-p-methoxytoluene*.
- o*-*Chloro-m-tolyl and m-chloro-o-tolyl methyl ketones* (CLAUS), 1891, A., 911.
- μ*-*Chloro-m-tolyl methyl ketone*, and *ketozone* (CLAUS), 1892, A., 1201.
- tri*-*Chloro-o-tolylacetamide* (CLOPKZ), 1887, A., 1098.
- di*-*Chlorotolylbenzoic acid* (LE ROYER), 1887, A., 832.
- di-o*-*Chloro-m-tolylcarbamide* (KOCK), 1887, A., 810.
- tri*-*Chlorotolylenediamines*, *α*- and *β*- (SEELIG), 1885, A., 770.
- di*-*Chloro-o-tolyl phosphite* (STUART), 1888, T., 403; P., 24.
- Chloro-p-tolylmethylsulphones*, *mono*- and *di*- (OTTO), 1890, A., 380, 381.
- 1'-*Chloro-3'-m-tolylisoquinoline* (HEILMANN), 1890, A., 625; 1891, A., 202.

- 1'-Chloro-3'-*p*-tolylisoquinoline (RUTHE-MANN), 1892, A., 474.
- di*-*o*-Chloro-*m*-tolylthiocarbamide (KOCK), 1887, A., 810.
- di*Chlorotriisobutylene *di*chloride (MAYBOD and GENTIL), 1889, A., 843.
- Chlorotriethylallylammonium chlorides, α - and β - (REBOUL), 1883, A., 307.
- hexa*Chlorotriketohexamethylene (ZINCKE and KEGEL), 1889, A., 967.
- tri*Chlorotriketopentamethylene (HANTZSCH), 1888, A., 1190; (LANDOLT), 1892, A., 835.
- tri*Chlorotriketovaleic acid (PLANTZSCH), 1888, A., 1192.
- Chlorotrimethylene and its derivatives. See Trimethylene.
- hexa*Chlorotrimethylenetrisulphone (CAMPS), 1892, A., 592.
- 4'-Chloro-1:3:2'-trimethylquinoline (CONRAD and LIMPACH), 1888, A., 503.
- Chlorotrimethyluracil (HAGEN), 1888, A., 582.
- Chlorotriphenylfurfuran, reduction of (JAPP and KLINGEMANN), 1889, P., 136; 1890, T., 674.
- tri*Chlorotriphenylrosanilines (HEUMANN and HEIDBERG), 1886, A., 943.
- Chlorovalerolactone (WOLFF), 1885, A., 1124.
- di*Chloro-*o*-vinylbenzoic acid (ZINCKE and FRÖHLICH), 1887, A., 955; (ZINCKE), 1888, A., 159.
- tri*Chloro-*o*-vinylbenzoic acid (ZINCKE and FRÖHLICH), 1887, A., 955; (ZINCKE), 1888, A., 490.
- o*-*di*Chlorovinylbenzoylcarboxylic acid (ZINCKE and KEGEL), 1889, A., 270.
- o*-*tri*Chlorovinylbenzoylcarboxylic acid (ZINCKE), 1888, A., 490.
- o*-*di*Chloro- and *tri*chloro-vinyl *di*-*o*-chlorophenylacetic acids (ZINCKE and KEGEL), 1889, A., 270.
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- Chloroxalethylne. See Chloro-5-methyl-1-ethylglyoxaline.
- p*-*di*Chloro-*p*-oximidoquinone (KRIEMANN), 1889, A., 244.
- Chloroxyadic acid, lactone of (RUTHE-MANN), 1890, T., 940.
- m*-*di*Chloroxyazobenzene (SCHULTZ), 1884, A., 903.
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- 1'-Chlor-2'-oxy-1'-benzylisoquinoline (EICHELBaum), 1888, A., 1301.
- Chloroxybutane (ZIKES), 1885, A., 1046.
- Chloroxy *penta*chlorobenzene (BENEDIKT and v. SCHMIDT), 1883, A., 1119.
- di*Chloroxy *di*chloro *di*bromodiphenylquinone (BENEDIKT), 1883, A., 984.
- di*Chloroxydimethylpurin (FISCHER), 1881, A., 997.
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- 5-Chloro-*o*-xylidine [1:2:4] (CLAUS), 1892, A., 1202.
- 2-Chloro-*p*-xylidine [1:4:5] (KLUGER), 1885, A., 1208.
- 4:6-*di*Chloro-*m*-1:3-xylo-2:5-quinol and -quinone (CLAUS and RUNSCHKE), 1890, A., 1247.
- 4:5-*di*Chloro-*o*-xylo-3:6-quinol and -quinone (CLAUS, RAPP, HERFELDT and BERKEFELD), 1891, A., 1201.
- 3-Chloro-1:2-xylyl methyl 6(?)-ketone and its derivatives (CLAUS), 1892, A., 1202.
- 4-Chloro-1:2-xylyl methyl 5-ketone and derivatives (CLAUS), 1891, A., 912; 1892, A., 1201.
- Chloroxylenephthalimide (STRASSMANN), 1888, A., 475.
- tetra*Chloroxylenic oxide (GRAEBE), 1887, A., 832.
- di*Chloroxymethyluracil (BEHREND), 1887, A., 129.
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- ψ -Cumylenethenylamidine**, amido- (AUWERS), 1886, A., 144.
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- ω*-Cyanobenzylidenephthalide (GABRIEL), 1885, A., 902.
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- o*-Cyanobenzylidenic chloride (GABRIEL and WEISE), 1888, A., 261; (DRORY), 1891, A., 1460.
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- o*-Cyanobenzylphthalimide (GABRIEL), 1887, A., 1038.
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- α*-Cyanocinnamic acid [m.p. 178°] (CARICK), 1892, A., 1037.
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- "*di*Cyano-*β*-naphthenylamidoxime"** (NORDENSKIÖLD), 1890, A., 1121.
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- o*-Cyanophenol** (AHRENS; MEYER), 1888, A., 266.
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- p*-Cyanophenylacetic acid** (MELLINGHOFF), 1890, A., 239.
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- p*-Cyanophenylethenylamidoxime** (ROSENTHAL), 1890, A., 147.
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- o*-Cyanoquinoline** (FISCHER), 1883, A., 92; (LELLMANN and REUSCH), 1889, A., 905.
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- m*-Cymene (Me:Pr=1:3) (*m*-propyltoluene), 4:6-dibromo-2:5-diamido- (CLAUS, RAPS, HERFELDT and BERKEFELD), 1891, A., 1200.
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- o*-Cymene (Me:Pr=1:2) (*o*-propyltoluene), presence of, in resin spirit (KELBE), 1886, A., 939.
- 4:5-dibromo- (CLAUS, RAPS, HERFELDT and BERKEFELD), 1891, A., 1200.
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- p*-Cymene (Me:Pr=1:4) (*p*-propyltoluene; methylpropylbenzene) (WIDMAN), 1891, A., 686.
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- m*-Cymo-2:5-quinol, 4:6-dibromo- (CLAUS, RAPS, HERFELDT and BERKEFELD), 1891, A., 1200.
- o*-Cymo-3:6-quinol, 4:5-dibromo- (CLAUS, RAPS, HERFELDT and BERKEFELD), 1891, A., 1201.
- p*-Cymo- and *p*-isocymo-3:6-quinols and quinones, 2:5-dibromo- (CLAUS, RAPS, HERFELDT and BERKEFELD), 1891, A., 1201, 1200.

- m*-Cymo-2:5-quinoné, 4:6-dibromo- (CLAUS, RAPS, HERFELDT and BERKEFELD), 1891, A., 1200.
- o*-Cymo-3:6-quinone, 4:5-dibromo- (CLAUS, RAPS, HERFELDT and BERKEFELD), 1891, A., 1201.
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- o*-Cymyl methyl ketone (CLAUS), 1890, A., 770.
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- p*-Diacetodiamidoquinol, chloro-** (KEHRMANN and TIESLER), 1890, A., 243.
- 2:5-Diacetodiamido-4-quinone, 6-chloro-** (KEHRMANN and TIESLER), 1890, A., 243.
- Diaceto δ iamidoquinone** (NIETZKI and PREUSSER), 1886, A., 1024.
- Diacetodiamidotetrahydroxybenzene** (NIETZKI and SCHMIDT), 1888, A., 944.
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- α -Diacetonaphthalide**, *o*- and *p*-nitro- (LELMANN and REMY), 1886, A., 624.
- 1:4-Diaceto- α -naphthylenediamine and 2-nitro-derivative** (KLEEMANN), 1886, A., 472.
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- Diacetyl-*mono*- and -*di*-cyanhydrins, *tetrachloro*- (LEVY, WITTE and CURCHOD), 1890, A., 233.
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- Diacetyldiacetoxystilbenediamine (JAPP and HOOKER), 1884, T., 680, 683.
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- ω -Diacetyl- ω -diethylpentane (KIPPING and PERKIN), 1890, T., 29, 32.
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- Diacetylmethylhydroxyanthranol** (LIEBERMANN), 1888, A., 717.
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- α -Dialkylcarbamides** (VANDERZANDE), 1889, A., 962.
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- Diamylpyrocatechol (KOENIGS and MAI), 1892, A., 1445.
- Diamylpyrogallol (KOENIGS and MAI), 1892, A., 1445.
- Diamylquinol and diamylquinolphenylcarbamate (KOENIGS and MAI), 1892, A., 1443, 1444.
- Diamylquinone (KOENIGS and MAI), 1892, A., 1444.
- Diamylresorcinol (KOENIGS and MAI), 1892, A., 1444.
dispersion and molecular refraction of (COSTA), 1890, A., 1201.
- Diamylselenocarbamide and *u*-diamylthiocarbamide (SPICA and CARARA), 1892, A., 216.
- Diamylsulphonamic acid (TRAUBE), 1891, A., 569.
- Diamylsulphone, action of chlorine on (SPRING and WINSSINGER), 1884, A., 1127.
- Diamylsulphonedimethylmethane (STUFFER), 1891, A., 180.
- Diamyldithioxamide (WALLACH and REINHARDT), 1891, A., 1008.
- Dianhydrolupinine (BAUMERT), 1888, A., 100.
- Dianildicyandiamide (PELLIZZARI and TIVOLI), 1892, A., 1323.
- Dianilglycerol. See Dianilidopropyl alcohol.
- p*-Dianilidobenzene, derivatives of (BRUNCK), 1892, A., 1450.
- Dianilido-*o*-diazothiole (HECTOR), 1889, A., 872; 1890, A., 526.
cyanide (HECTOR), 1889, A., 872.
- Dianilidodicarboxylic acid (LOEWENHERZ), 1892, A., 1464.
- Dianilidodimethenylamidoresorcinol (JACOBSON and SCHENCKE), 1890, A., 248.
- 3:6-Dianilido-2-ethoxy-1:4-quinone, 5-chloro- (KEHRMANN), 1891, A., 903.
- Dianilidohydroxybenzene (MINUNNI), 1891, A., 191.
- Dianilidomethylbromacetoacetic acid (REISSERT), 1890, A., 642.
- Dianilidomethylchloroacetoacetic acid (REISSERT), 1890, A., 643.
- 2:2'-Dianilidonaphthalene (CLAUDIUS), 1890, A., 629.
- p*-Dianilidonaphthalene and dianilidonaphthaquinone (FISCHER and HEPP), 1890, A., 911.
- p*-Dianilido-*di-m*-nitrobenzophenone (SCHOPFF), 1892, A., 336.
- Dianilidophenylquinoneimide, chloro- (ANDRESEN), 1884, A., 431.
- Dianilido-*o*-phosphoric acid (MICHAELIS and v. SODEN), 1885, A., 1134.
- Dianilidophthalaldiamide (HORTE), 1887, A., 670.
- Dianilidopropyl alcohol (*dianilglycerol*) (FAUCONNIER), 1888, A., 586, 1281.
- Dianilidopyruvic acid, tribromo- (BORTINGER), 1891, A., 1054.
- 2:5-Dianilidoquinone (ZINCKE), 1883, A., 1117; (NIETZKLAND SCHMIDT), 1889, A., 968.
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- Dianilidoquinoneanilide (ZINCKE), 1885, A., 787; (FISCHER and HEPP), 1891, A., 1046.
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- Dianilidosuccinamide, acetyl-derivatives of (POLIKIER), 1892, A., 55.
- Dianilidosuccinic acid (GORODETZKY and HELL), 1888, A., 952.
- Dianilidotoluquinone, and derivatives of (ZINCKE), 1883, A., 1118.
- Dianilido-*p*-xyloquinone (PFLUG), 1890, A., 606.
- Dianisidine (HIRSCH), 1889, A., 511.
- Dianisylamine (STEINHART), 1888, A., 51.
- Dianisylarsine chloride (MICHAELIS and WEITZ), 1887, A., 367.
- Dianisylidinitrosacyl (HOLLEMAN), 1892, A., 971.
- Dianisylguanidine (FOERSTER), 1888, A., 945.
- Dianisylhydroxyvaleric acid (FITTIG and POLITIS), 1890, A., 772.
- Dianisyl-pentalactone and -bromopentalactone (FITTIG and POLITIS), 1890, A., 772.
- Dianisylpentolic acid (FITTIG), 1890, A., 584; (FITTIG and POLITIS), 1890, A., 771.
- Dianisylpentylene (FITTIG and POLITIS), 1890, A., 771.
- Dianisyltetraylene (FITTIG), 1890, A., 584; (FITTIG and POLITIS), 1890, A., 772.
- Dianisylthiocarbamide (GOLDSCHMIDT and POLONOWSKA), 1887, A., 1041.
- Dianisylthiohydantoin (FOERSTER), 1888, A., 946.
- Dianthramine (BOLLENT), 1883, A., 1139.

- Dianthraminemethenylamidine** (BOLLETT), 1883, A., 1140.
- Dianthranyl** (*diunthryl*) (SCHULZE), 1886, A., 248.
- preparation of (LIEBERMANN and GIMBEL), 1887, A., 965.
- boiling point of (SCHWERTZER), 1891, A., 1240.
- action of chlorine and of bromine on (SACHSE), 1888, A., 718.
- derivatives (GIMBEL), 1887, A., 1049.
- tetrahydride (SACHSE), 1888, A., 1201; 1890, A., 638.
- Dianthranyl, dibromo-** (LIEBERMANN and GIMBEL), 1887, A., 965; (SACHSE), 1888, A., 1201; 1890, A., 638.
- octobromide** (SACHSE), 1890, A., 638.
- hexabromo-** (SACHSE), 1890, A., 638.
- dichloro-** (SACHSE), 1888, A., 1201; 1890, A., 638.
- octochloride** (SACHSE), 1890, A., 638.
- hexachloro-** (SACHSE), 1890, A., 638.
- Diantipyrin** (KNORR), 1884, A., 1379.
- Diaptonus*, colouring matter analogous to carotene from (BLANCHARD), 1890, A., 640.
- Diarabinantrigalactangeddic acid** (O'SULLIVAN), 1891, T., 1038.
- Diarrhœa**, sulphates and ethereal hydrogen sulphates in urine during (BARTOSCHEWITSCH), 1892, A., 1505.
- Diaspore** (*empholite*) (SCHUBERT), 1883, A., 35.
- from Colorado (CROSS), 1891, A., 1828.
- from Wermland (IGELSTROM), 1886, A., 31; (NORDENSKIÖLD), 1889, A., 220.
- from Newlin, Pa. (DANA), 1887, A., 343.
- from Sweden (IGELSTROM), 1885, A., 31.
- Diastase**. See Enzymes.
- Diastatic action** (LINTNER), 1886, A., 386; (DUGGAN), 1886, A., 483; (MORITZ), 1892, T., 689.
- of saliva (SCHLESINGER), 1891, A., 1522.
- Diastatic ferments**. See Ferments.
- Diathermanous power**, refractive index, density and molecular weight of a substance, relation between (AYMONNET), 1892, A., 1.
- Diaureomethylamine** (RASCHIG), 1887, A., 112.
- p*-**Diazine**. See Pyrazine.
- Diazinedicarboxylic acid** (STOKER), 1892, A., 507.
- Diazinenaphthoic acid sulphide** (EKSTRAND), 1889, A., 153.
- m*-**Diazines** (*pyrimidines, cyanalkines*) (PINNER), 1885, A., 751; 1886, A., 45; 1887, A., 1053; 1889, A., 1004, 1006; 1890, A., 69; (V. MEYER), 1890, A., 68; (SCHWARZE), 1890, A., 1158.
- tetrachloro-** (CIAMICIAN and MAGNAGHI), 1886, A., 226.
- Diazo-compounds**. See under Azo-.
- Dibenzal-**. See Dibenzylidene-.
- Dibenzamide** (GUMPERT), 1885, A., 53; (KRAFFT), 1890, A., 1289.
- silver compound of (KRAFFT), 1890, A., 1289.
- sodium compound of (CURTIUS), 1891, A., 58.
- Dibenzamide, imido-** (KRAFFT and KARSTENS), 1892, A., 713.
- m*-nitro- (LOSSEN), 1892, A., 52.
- p*-nitro- (HAFNER), 1890, A., 486.
- Dibenzamidodiethyllic disulphide** (COBLENTZ and GABRIEL), 1891, A., 817.
- Dibenzamidodihydroxytetrène** (RUGHEIMER), 1889, A., 249, 391.
- Dibenzamidoethylpiperonylcarboxylic acid** (PERKIN), 1890, T., 1059.
- o*-**Dibenzamidotoluene**, nitro- (BISTRZYCKI and ULFFERN), 1892, A., 1197.
- Dibenzanilide** (COHEN), 1890, P., 162; 1891, T., 67.
- Dibenzamidylcarbamide** (PINNER), 1891, A., 60.
- Dibenzenesulphone-diphenetidine and *p*-phenylenediamine** (HINSBERG), 1892, A., 65.
- Dibenzenesulphone-*o*-tolylenediamine** (HINSBERG), 1892, A., 66.
- Dibenzenzylazosulphime** (v. HOFMANN and GABRIEL), 1892, A., 1109.
- Dibenzenzylidiazoximeoxalene** (WURM), 1890, A., 259.
- Dibenzenzylethyleneamidoxime** (FALCK), 1886, A., 797.
- Dibenzenzylpiperidine** (RUGHEIMER), 1891, A., 1246.
- Dibenzhydroxamic acid** (MÜLLER), 1883, A., 1130.
- Dibenzimidine** (PINNER), 1885, A., 158; 1892, A., 1110.
- Dibenzimidinesulphonic acid** (PINNER), 1885, A., 158.
- Dibenzimido-oxide** (GUMPERT), 1885, A., 53.
- Dibenzobenzidine** (STERN), 1884, A., 1015.

- Dibenzobenzyl-*m*-phenylenediamine** (MELDOLA and COSTE), 1889, T., 598.
- Dibenzobenzyl-*p*-phenylenediamine** (MELDOLA and COSTE), 1889, T., 592.
- Dibenzobromotolylenediamine** (HARTMANN), 1890, A., 976.
- Dibenzocarbamide** (HOLLEMAN), 1891, A., 65, 446.
- as*-Dibenzocarbamide** (BUDDÉUS), 1890, A., 1253.
- Dibenzodicynnylediamine** (JAPP and WYNN), 1886, T., 469.
- Dibenzodihydroxystilbenediamine**, and its dibenzoyl derivative (JAPP and HOOKER), 1884, T., 681, 684.
- Dibenzodimethylamidobenzophenone** (NATHANSON and MÜLLER), 1889, A., 1188.
- Dibenzoethylenephenyldiamine** (NEWMAN), 1891, A., 1207.
- s*-Dibenzohydrazine** (CURTIUS), 1891, A., 56.
- Dibenzomethylenediamine** (*hipparaffin*) (KRAUT and SCHWARTZ), 1884, A., 838.
- Dibenzomethylene glycol** (DE NEUFVILLE and V. PECHMANN), 1891, A., 319.
- Dibenzomethylhydrazine** (V. BRÜNING), 1890, A., 23.
- Dibenzo- α -*s*-naphthylenediamine** (HINSBERG and V. UDRÁNSZKY), 1890, A., 370.
- Dibenzopentamethylenediamine** (V. UDRÁNSZKY and BAUMANN), 1888, A., 1297.
- Dibenzo-*o*-phenylenediamine** (HINSBERG and V. UDRÁNSZKY), 1890, A., 370.
- Dibenzo- ψ -phenylhydrazidomandelic acid** (REISSERT and KAYSER), 1891, A., 438.
- Dibenzophenylhydrazines**, isomeric (MICHAELIS and SCHMILT), 1887, A., 365.
- Dibenzophenylmethylhydrazine** (TAFEL), 1885, A., 1060.
- Dibenzopropylenediamine** (STRACHE), 1888, A., 1173.
- Dibenzosalicylin** (FRITSCH), 1891, A., 708.
- Dibenzo-*o*-tolylenediamine** (HINSBERG and V. UDRÁNSZKY), 1890, A., 370.
- Dibenzotrimethylenediamine** (STRACHE), 1888, A., 1174.
- Dibenzotrimethylenephenyldiamine** (BALBIANO), 1890, A., 1244.
- Dibenzoyl**. See Benzil.
- Dibenzoyl ketone**. See Diphenyl triketone.
- Dibenzoylacetetic acid** (V. BAEYER and PERKIN), 1884, A., 64; (PERKIN), 1885, T., 246.
- action of hydroxylamine on (PERKIN and STENHOUSE), 1891, T., 1004; P., 42.
- reduction of (PERKIN and STENHOUSE), 1891, T., 1001.
- decomposition products of (PERKIN), 1885, T., 249.
- salts of (PERKIN), 1885, T., 246.
- Dibenzoylacetone** (FISCHER and BÜLOW), 1885, A., 1237.
- Dibenzoylacetone trile** (V. MEYER), 1890, A., 1251.
- Dibenzoylamylenenitrolamine** (WALLACH and WAHL), 1891, A., 1005.
- Dibenzoyl-*l*-bromo-*l*-amidophenyl**. See Bisbenzobromamidophenyl.
- Dibenzoylbromocarbinylic acetate** (DE NEUFVILLE and V. PECHMANN), 1891, A., 318.
- Dibenzoyl-*l*-bromomethane** (DE NEUFVILLE and V. PECHMANN), 1891, A., 318.
- Dibenzoylcarbinylic acetate** (DE NEUFVILLE and V. PECHMANN), 1891, A., 318.
- Dibenzoylcinnamenimide** (JAPP and KLINGEMANN), 1890, T., 692.
- crystallography of (TUTTON), 1890, T., 718.
- di*bromide (JAPP and KLINGEMANN), 1890, T., 693.
- Dibenzoyl- ψ -cumidide** (FRÜHLICH), 1884, A., 1319.
- Dibenzoyldaphnetin** (V. PECHMANN), 1884, A., 1174.
- Dibenzoyldiacetylene** (FISCHER and BÜLOW), 1885, A., 1237.
- Dibenzoyldiisoeugenol** (TIEMANN), 1892, A., 46.
- Dibenzoyldihydroxyanhydroecgonine**, derivatives of (EINHORN and RASOW), 1892, A., 1016.
- Dibenzoyldi-*o*-hydroxystilbene** (HARRIES), 1892, A., 168.
- Dibenzoyldisulphydronaphthalene** (*benzoyldithionaphthol*) (GROSTMAN), 1890, A., 1306.
- Dibenzoylethane** (CULMANN), 1890, A., 1269.
- Dibenzoylglutazine** (V. PECHMANN), 1888, A., 68.
- Dibenzoyl-*p*-hydroxybenzenylamidoxime** (KRONE), 1891, A., 700.
- Dibenzoylhydroxytolenylamidoxime** (*dibenzoylsalicylanilamidoxime*) (SPILKER), 1890, A., 143.

Dibenzoyl-*o*-hydroxytolenylamidoxime (*dibenzoyl-*o*-homosalicylamidoxime*) (PAUCHEN), 1892, A., 320.

Dibenzoyl-*p*-hydroxytolenylamidoxime (*dibenzoyl-*p*-homosalicylamidoxime*) (GOLDBERK), 1892, A., 319.

Dibenzoylmesitylene (LOUISE), 1884, A., 904.

Dibenzoylmethane (*diphenylmethylenediketone*) (v. BAAYER and PERKIN), 1884, A., 64.

preparation of (PERKIN), 1885, T., 246, 249.

nitroso- (v. PECHMANN), 1889, A., 712; (DE NEUFVILLE and v. PECHMANN), 1891, A., 318.

Dibenzoylmethylenic bromide (v. PECHMANN), 1889, A., 712.

Dibenzoylmethylenic bromide (v. PECHMANN), 1889, A., 712; (DE NEUFVILLE and v. PECHMANN), 1891, A., 318.

Dibenzoyl-*l*-nitro-*m*-hydroxyphenyl-*p*-tolylamine (HATSCHEK and ZEGA), 1886, A., 456.

Dibenzoyl-*p*-oxydiphenylamine and its *l*-nitro- compound (PHILIP and CALM), 1885, A., 156.

***aa*-Dibenzoylpentane** (KIPPING and PERKIN), 1889, T., 330, 347, 348; P., 80.

action of dehydrating agents on (KIPPING and PERKIN), 1890, T., 27.

Dibenzoylpentanedioxime (KIPPING and PERKIN), 1889, T., 349.

2,4-Dibenzoyl-1-phenyl-3-5-pyrazolidone (MICHAELIS and BURMEISTER), 1892, A., 1005.

2,4-Dibenzoyl-1-phenyl-3-methylpyrazolone (NEF), 1892, A., 146.

Dibenzoylphloroglucinols, isomeric (SKRAUP), 1889, A., 1152.

Dibenzoylpyridine (RUGHEIMER), 1892, A., 1365.

Dibenzoylquinhydrone (KLINGER and STANDKE), 1891, A., 900.

Dibenzoylresorcinols, *mono*- and *tri*-nitro- (ERRERA), 1886, A., 50, 51.

Dibenzoylstilbene, action of alcoholic ammonia on (KLINGEMANN and LAYCOCK), 1891, T., 142.

action of methylamine on (KLINGEMANN and LAYCOCK), 1891, T., 146.

action of phenylhydrazine on (KLINGEMANN), 1892, A., 995.

Dibenzoylstilbenimide (KLINGEMANN and LAYCOCK), 1891, T., 144.

***αβ*-Dibenzoylstyrene** (*anhydrazetophenonebenzil*) (JAPP and BURTON), 1887, T., 429; P. 82; (JAPP and KLINGEMANN), 1889, P., 136, 139; 1890, T., 662.

***αβ*-Dibenzoylstyrene** (*anhydrazetophenonebenzil*), preparation of (JAPP and KLINGEMANN), 1890, T., 672.

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action of heat on (JAPP and KLINGEMANN), 1890, T., 677.

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action of bromine on (JAPP and KLINGEMANN), 1890, T., 711.

action of hydroxylamine on (JAPP and KLINGEMANN), 1890, T., 710.

action of phenylhydrazine on (JAPP and HUNTLY), 1888, T., 184; (JAPP and KLINGEMANN), 1890, T., 708.

nitro- (JAPP and KLINGEMANN), 1890, T., 676.

***iso*Dibenzoylstyrene** (*isodibenzoylcinnaemene*) (JAPP and KLINGEMANN), 1889, P., 139; 1890, T., 707.

Dibenzoylstyrenehydrazone (JAPP and KLINGEMANN), 1889, P., 141.

Dibenzoylsuccinic acid, *mono*- and *di*-lactones of (v. BAAYER and PERKIN), 1884, A., 839.

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Dibenzyl-derivatives, formation of (POPPE), 1890, A., 504.

Dibenzyl dibenzyl ketone (RATTNER), 1888, A., 704.

Dibenzyl ketone (YOUNG), 1891, T., 621; P., 119; (v. BOGDANOWSKA), 1892, A., 851.

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Dibenzyl oxide (LOWE), 1887, T., 700.

Dibenzylacetamide (SCHNEIDEWIND), 1888, A., 705.

Dibenzylacetic acid (MICHAEL and PALMER), 1885, A., 987; (BISCHOFF and v. KUHLEBERG), 1890, A., 1135.

Dibenzylacetonitrile (SCHNEIDEWIND), 1888, A., 705.

Dibenzylacetoacetic acid (FITTIG and CHRIST), 1892, A., 963.

Dibenzylacetone and **dibenzylacetone-dicarboxylic acid** (DUNSCHMANN and v. PECHMANN), 1891, A., 674.

Dibenzylacetoxime (RATTNER), 1888, A., 704.

Dibenzylalsorbite (MEUNIER), 1890, A., 731.

Dibenzylamarine and its iodides (CLAUS), 1883, A., 203.

Dibenzylamidodindamine (MELDOLA and COSTE), 1889, T., 598.

Dibenzyldiamidophenazine (MELDOLA and COSTE), 1889, T., 599.

- Dibenzylamidodisulphonic acid (SCHMIDT), 1892, A., 476.
- Dibenzylamine and its derivatives (WALDER), 1886, A., 796; 1887, A., 246.
nitrate (SCHMIDT), 1892, A., 476.
thiocyanate (SALKOWSKI), 1891, A., 1474.
- Dibenzylamine *o*-dichloro-*p*-dinitro- (WITT), 1892, A., 445.
o-dicyano- (DAY and GABRIEL), 1890, A., 1251.
nitroso- (WALDER), 1887, A., 247.
- Dibenzylaniline and its derivatives (MATZUDAIRA), 1887, A., 812.
o-dichloro-*p*-dinitro- (WITT), 1892, A., 445.
- Dibenzylanthracene hydride and dibenzylanthrone (HALLGARTEN), 1888, A., 1202.
- Dibenzylarsine trichloride (MICHAELIS and PAETOW), 1885, A., 526.
- Dibenzylarsinic acid (MICHAELIS and PAETOW), 1885, A., 527.
- as*-Dibenzylazine (CURTIUS and THUN), 1891, A., 1357.
- Dibenzylbenzene, *m*-dinitro- (BECKER), 1883, A., 203.
p-dinitro- (BASLER), 1884, A., 310.
- Dibenzylbromobenzeneazocommonium chloride (BEHREND and LEUCHS), 1889, A., 502.
- Dibenzylisobutylcarbamide (HAMMERICH), 1892, A., 1083.
- Dibenzylcarbamie chloride (HAMMERICH), 1892, A., 1083.
- Dibenzylcarbamide, *p*-dinitro- (HAFNER), 1889, A., 982.
- Dibenzylcarbinol (v. BOGDANOWSKA), 1892, A., 851; (NOYES), 1892, A., 1094.
- Dibenzylcarbinyllamine (NOYES), 1892, A., 1093.
- Dibenzylcarbinyllaminatedibenzylcarbinaminethiocarbamate (NOYES), 1892, A., 1094.
- Dibenzyl-*o*-carboxylic acid. See Diphenylethane-*o*-carboxylic acid.
- Dibenzylcyanocarbamide argentocyanide (HAMMERICH), 1892, A., 1084.
- Dibenzyl-di-*o*-carboxylic acid. See Diphenylethanedii-*o*-carboxylic acid.
- Dibenzyl-diethyl-di-*amido*triphenylmethane (FRIEDLÄNDER), 1889, A., 606; (PHILIPS), 1889, A., 1158.
- Dibenzyl-diethylphosphonium chloride (COLLIE), 1888, T., 724.
- Dibenzyl-dimethylthiocarbamides, *o*- and *p*- (KRÖBER), 1890, A., 968.
- Dibenzyl-dimethylammonium chloride (JACKSON and WINE), 1887, A., 722.
- Dibenzyl-di-*iso*quinoline (KRAUS), 1891, A., 86.
- Dibenzyl-ditolylcarbamide (HAMMERICH), 1892, A., 1083.
- Dibenzylethylamine (WALDER), 1887, A., 813; (KRAFT), 1891, A., 51.
- Dibenzylethylphosphine (COLLIE), 1888, T., 725.
- Dibenzylglycollic acid (*oxytolyllic acid*), products of the reduction and oxidation of (SPIEGEL), 1884, A., 841.
- Dibenzylglycosine (JAPP and CLEMINSHAW), 1887, T., 555.
- α -Dibenzylhomo-*o*-phthalbenzylimide (PULVERMACHER), 1887, A., 1112.
- α -Dibenzylhomo-*o*-phthalic anhydride, and α -*o*-phthalimide (PULVERMACHER), 1887, A., 1111.
- Dibenzylhydrazine hydrochloride (CURTIUS and JAY), 1889, A., 393.
- Dibenzylhydroxylamine (SCHRAMM), 1884, A., 51; (BEHREND and LEUCHS), 1889, A., 704.
derivatives (WALDER), 1886, A., 796; 1887, A., 246, 813.
- Dibenzylhydroxylamine, nitro-, oxidation of (BEHREND and KÖNIG), 1892, A., 1456.
nitroso- (WALDER), 1887, A., 246.
- Dibenzyllic sulphide, platinum compounds (SÖNDAHL), 1889, A., 868.
disulphide, *di-*o*-cyano*- (DAY and GABRIEL), 1890, A., 1251.
mono- and *di*-sulphides, *o*-nitro- (JAHODA), 1890, A., 487, 488.
- Dibenzylideneacetone. See Distyryl ketone.
- Dibenzylidene-di-*amido*diphenylamine (MELDOLA and CUSTE), 1889, T., 594.
- Dibenzylidene-*p*-di-*amido*diphenylmethane (GRAM), 1892, A., 618.
- Dibenzylidene-2:6-dimethylpyridine (*dibenzylidene-2:6-lutidine*) (SCHUNTER), 1892, A., 1361.
- Dibenzylidenediphenylene (REULAND), 1890, A., 166.
- $\beta\beta$ -Dibenzylidenelevulinic acid (*dibenzylidenelevulinic acid*) (ERDMANN), 1890, A., 1129.
- Dibenzylidenenitrotolidine (LOEWENHERZ), 1892, A., 852.
- Dibenzylidenepimelic acid (*dibenzylpimelic acid*) (PERKIN and PRENTICE), 1891, T., 850.
- Dibenzylidenepropylenediamine (STRACHE), 1888, A., 1173.
- Dibenzylidenestilbenediamine (GROSSMANN), 1889, A., 1191.
- Dibenzylidenedithioamide and *d*-nitro-derivative of (EPHRAIM), 1891, A., 831.

- Dibenzylidenethylenediamine** (MARON), 1887, A., 493.
- Dibenzylmalonic acid** (PERKIN), 1885, T., 821; (BISCHOFF and STIEBERT), 1887, A., 952; (BISCHOFF and v. KUHLMERG), 1890, A., 1134. preparation and nitration of (SIMON-THOMAS), 1888, A., 479.
- Dibenzylmethylaniline**, *m*-nitro- (DORMANN), 1886, A., 56.
- di-o*-nitro- (GABRIEL and JANSEN), 1892, A., 218.
- Dibenzylmethylenediamine** (*methylene-dibenzylamine*) (KEMPF), 1890, A., 887.
- Dibenzylnitroquinol** (PELLIZZARI), 1884, A., 438.
- 1:4-Dibenzoyloxybenzene** (COLSON), 1889, A., 1152.
- Dibenzylpentanetetra-carboxylic acid** (PERKIN and PRENTICE), 1891, T., 844.
- Dibenzyl-*p*-phenylenediacetonitrile** (RATTNER), 1888, A., 704.
- Dibenzylphosphine** (LETTS and BLAKE), 1890, A., 767. Hofmann's, identity of, with tri-benzylphosphine oxide (LETTS and BLAKE), 1890, A., 492.
- Dibenzylphosphinic acid** (LETTS and BLAKE), 1890, A., 767.
- Dibenzylpicmalic acid** (PERKIN and PRENTICE), 1891, T., 846.
- ωω*-Dibenzylpicmalic acid, dissociation constant of (WALKER), 1892, T., 702.
- Dibenzylpyridine** (RUGHEIMER), 1892, A., 1864.
- Dibenzyl-pyrocatechol**, -quinol and -resorcinol (PELLIZZARI), 1884, A., 437, 438.
- Dibenzylsuccinamide** (WERNER), 1889, T., 631.
- Dibenzylsulphone-methane** and -thio-benzylmethane (LAVEN), 1892, A., 612.
- Dibenzylsulphonephenylmethane** (LAVEN), 1892, A., 613.
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- Diisobutylglyoxaline** (*oxaliso-butyliso-amyline*) (RADZISZEWSKI and SZUL), 1884, A., 986.
- Diisobutylhexinene diketone** (*diiso-butyrone*) (BRUGGEMANN), 1888, A., 1176.
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- Dibutyltoctohydrophenanthroline** (SCHIFF and VANNT), 1890, A., 138.
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- Diisobutylloxamide** (MALBOT), 1887, A., 357.
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- 1:2-Diethoxyanthraquinone (*diethyl ulizarin ether*) (HABERMANN), 1884, A., 1187.
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- o*-Diethylbenzene (VOSWINKEL), 1889, A., 338.
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- Diethylenediamine cobalt chloride, chloro- (JORGENSEN), 1889, A., 352.
- β -Diethylethylamine (FREUND and HERMANN), 1890, A., 474.

- Diethylethylenedisulphone (OTTO and CASANOVA), 1888, A., 255.
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- n*-Diethylformamidine (*formimido-diethylamide*), hydrochloride (PINNER), 1884, A., 724.
- Diethylglutaramidine platinochloride (PINNER), 1891, A., 62.
- Diethylglutaric acid (GUTHZEIT and DRESSL), 1890, A., 878.
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- Dihydrazonopyruvic acid hydrazide** (MESSINGER and ENGELS), 1889, A., 36.
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- Dihydrazopimelic anhydride** (VOLHARD), 1892, A., 435.
- Dihydriodocinchonine** (PUM), 1892, A., 514; (LIPPMANN and FLEISSNER), 1892, A., 639.
- Dihydriodo-quinidine and -apoquinidine** (SCHUBERT and SKRAUP), 1892, A., 640.
- Dihydroacenaphthene dibromide** (BAMBERGER and LODTER), 1888, A., 604.
- Dihydroanthracene**, behaviour of, with carbonyl chloride (BEHLA), 1887, A., 594.
- Dihydroanthracenecarboxylic acid** (BORNSTEIN), 1884, A., 330.
- α-Dihydroanthracenecarboxylic acid** (GRAEBE and JUILLARD), 1888, A., 156.

- Dihydromesoanthramine** (GOLDMANN), 1890, A., 1426.
- Dihydroapiole** (CIAMIGIAN and SILBER), 1890, A., 1294.
- Dihydro-arecaidine** and **-arecoline** (JAHNS), 1892, A., 739.
- Dihydrobenzaldehyde** and **phenylhydrazone** of (EICHENGRÜN and EINHORN), 1891, A., 67.
- Dihydrobenzamide** (HUTCHINSON), 1891, A., 561.
- Dihydrobenzene**, synthesis of (v. BAAYER), 1892, A., 1074.
- hexabromo-** (THEURER), 1888, A., 1085.
- Dihydrobenzoic acid** (EICHENGRÜN and EINHORN), 1891, A., 68; (HUTCHINSON), 1891, A., 562; (ASCHAN), 1891, A., 1482.
- Dihydrobenzoxime** (EICHENGRÜN and EINHORN), 1891, A., 67.
- $\Delta^{3,5}$ -**Dihydrobenzylidimethylamine** (MERLING), 1892, A., 358.
- Dihydrocamphene**, derivatives of (TANRET), 1887, A., 676.
- Dihydrocarveol** and **dihydrocarvylamine** (WALLACE), 1892, A., 499.
- Dihydrocinchonine** (COMSTOCK and KOENIGS), 1884, A., 1384.
- Dihydrocinene** (HELL and RITTER), 1885, A., 172.
- Dihydrocollidine**. See **Trimethyldihydropyridine**.
- β -Dihydrocollidine**. See **4-Methyldihydropyridine**.
- Dihydrocoumaroxime** (TIEMANN), 1886, A., 880.
- Dihydrodiphenyl** (BAMBERGER and LODTER), 1888, A., 604.
- di**bromide and its bromo-derivative (BAMBERGER and LODTER), 1888, A., 604.
- bromo- (BAMBERGER and LODTER), 1888, A., 604.
- "**Dihydrodiphenyldihydroxyantetrazine**" (PINNER), 1890, A., 70.
- Dihydrodipyridyl**. See **Dipyridine**.
- Dihydrofurfuran** (HENNINGER), 1884, A., 897.
- Dihydroapharmine** (FISCHER), 1889, A., 731.
- Dihydroindoxyl**, amido-, derivatives of (BURMEISTER and MICHAELIS), 1891, A., 1068.
- Dihydrolutidine**. See **Dimethyldihydropyridine**.
- Dihydromeconic acid**, chloro- (HILSEBEIN), 1885, A., 1203.
- Dihydromethylfurfuran** (LIPP), 1889, A., 843.
- Dihydromethylquinoxaline**, derivatives of (LEUCKART and HERMANN), 1887, A., 383.
- Dihydromethylstilbazole** (BACHMÉR), 1889, A., 162.
- Dihydronaphthalene** (BAMBERGER and LODTER), 1887, A., 719.
- bromo- (AGRESTINI), 1883, A., 346.
- Dihydronaphthalenedicarboxylic acid** (ANSELM), 1889, A., 717.
- Dihydronaphthoic acid**, synthesis of (v. FECHMANN), 1883, A., 808.
- Dihydro- α - and - β -naphthoic acids** (v. SOWINSKI), 1891, A., 1380, 1381.
- Dihydro- α -naphthoic acid**, labile Δ^2 - and stable Δ^1 - (v. BAAYER, SCHÖDER and BESEMFLDER), 1892, A., 192.
- Dihydro- β -naphthoic acid**, labile Δ^3 - and stable Δ^2 - (v. BAAYER, SCHÖDER and BESEMFLDER), 1892, A., 193.
- Dihydrophenanthridine** and its derivatives (PIOTET and ANKERSMIT), 1892, A., 197, 838.
- Dihydrophthalic acid** (v. BAAYER), 1890, A., 1278.
- trans** $\Delta^{3,5}$ -**Dihydrophthalic acid** (v. BAAYER), 1892, A., 1214.
- Dihydrophthalic acid di**bromide and **dihydrobromide** (v. BAAYER), 1890, A., 1278.
- Dihydrophthalic acids**, $\Delta^{1,4}$ - and $\Delta^{2,1}$ - (v. BAAYER), 1892, A., 1216.
- Dihydrophthalic acids**, $\Delta^{4,6}$ - and *cis* $\Delta^{3,5}$ - (v. BAAYER), 1892, A., 1215.
- "**Dihydropyranilpyroic acid**" and "lactone" of (REISSERT), 1888, A., 696.
- Dihydropyrrole** and derivatives of (CIAMIGIAN and DENNSTEDT), 1883, A., 1142; (ANDERLINI), 1890, A., 65, 1430.
- Dihydroquinazolines** (PAAL and KRECKE), 1890, A., 1443; (GABRIEL and JANSEN), 1892, A., 219.
- Dihydro-santinic** (*dimethyldihydronaphthylpropionic*) and *-isosantinic acids* (GUCCI and GRASSI-CRISTALDI), 1892, A., 871.
- Dihydroshikimic acid** (EIJKMAN), 1891, A., 919.
- Dihydrosparteine** and its derivatives (ÄHRENS), 1887, A., 1056.
- Dihydro- α -stilbazole** (BAURATH), 1888, A., 608.
- Dihydrostrychnine** (LOEBTICH and SCHOOP), 1886, A., 815.
- Dihydroterephthalic acid** (v. BAAYER), 1887, A., 371; 1888, A., 1072.
- di**bromide and **dihydrobromide** (v. BAAYER), 1888, A., 1072, 1073.

- Δ^{15} -Dihydroterephthalic acid *di*bromide (V. BAYER and HERB), 1890, A., 1131.
- Dihydroterephthalic acid, nitrile of (V. BAYER), 1892, A., 534.
- p*-dichloro- (LEVY and ANDREOU), 1888, A., 840, 1091.
- p*-dichloronitro- (LEVY and ANDREOU), 1888, A., 1091.
- Dihydroterephthalic acids, isomeric, (V. BAYER), 1889, A., 1176.
- Dihydroterephthalic acids, Δ^{14} and Δ^{15} , thermochemistry of (STOHMANN and KLEBER), 1891, A., 376.
- Dihydrothenardite (MARKOWNIKOFF), 1888, A., 794.
- non-existence of (MARKOWNIKOFF), 1891, A., 156.
- o*-Dihydrotoluic acid, and its amide (HUTCHINSON), 1891, A., 562.
- Dihydroximidopropionic acids, primary and secondary (SÜDERBAUM), 1892, A., 815, 816.
- Dihydroxindole (BINCHOFF), 1883, A., 919.
- 4:2:1-Dihydroxyacetophenone (*resacetophenone*) (V. PECHMANN and DRISBERG), 1884, A., 66; (MICHAEL and PALMER), 1886, A., 239.
- Dihydroxyacridine (ELIASBERG and FRIEDLANDER), 1892, A., 1108.
- Dihydroxyaldehydes, aromatic, nitrogenous derivatives of (MARCUS), 1892, A., 317.
- Dihydroxyalizarin-blue (SCHMIDT and GATTERMANN), 1891, A., 1382.
- Dihydroxyamidanthraquinonesulphonic acid (LIFSCHUTZ), 1884, A., 1189.
- Dihydroxyisocamylamine (RADZISZEWSKI and SCHRAMM), 1884, A., 1190.
- Dihydroxyisocamylphosphinic acid (VILE), 1889, A., 1135.
- Dihydroxyamylpiperidine aurochloride (MARINO-ZUCCO), 1892, A., 86.
- Dihydroxyanhydroeconine (EINHORN and RASSOW), 1892, A., 1015.
- Dihydroxyanisole, *dinitro*- (NIETZKI and KURTENACKER), 1892, A., 596.
- Dihydroxyanthracene (*fluorol*), from α -anthraquinonedisulphonic acid (SCHÜLER), 1883, A., 74.
- o*-Dihydroxyanthracoumarin (V. KOSTANECKI), 1888, A., 292.
- 1:2-Dihydroxyanthraquinone. See Alizarin.
- m*-Dihydroxyanthraquinone (*xanthopurpurin*), synthesis of (NOAH), 1886, A., 475.
- 1:4-Dihydroxyanthraquinone (*quinizarin*) (LIEBERMANN), 1888, A., 716.
- 1:4'-Dihydroxyanthraquinone (*anthraquin*) (ROEMER), 1883, A., 737.
- 2:3-Dihydroxyanthraquinone (*hystazarin*) and its compounds (SCHOELLER), 1888, A., 1203; 1889, A., 719.
- Dihydroxyaurindicarboxylic acid (CARO), 1892, A., 1469.
- Dihydroxybenenic acid (HAZURA and GRÜSSNER), 1889, A., 375; (URWANZOFF), 1889, A., 1146.
- heats of combustion and formation of (STOHMANN and LANGBEIN), 1891, A., 11.
- iso*Dihydroxybenenic acid (GRÜSSNER and HAZURA), 1889, A., 956.
- 2:4-Dihydroxybenzaldoxime (β -resorcylaldoxime) (MARCUS), 1892, A., 317.
- Dihydroxybenzamidopyrrolone (RÜGHEIMER), 1889, A., 1211.
- 2:4-Dihydroxybenzaldoxime (β -resorcylaldoxime) (MARCUS), 1892, A., 317.
- 1:2-Dihydroxybenzene. See Pyrocatechol.
- 1:3(?)-Dihydroxybenzene, *tetranitro*- (HENRIQUES), 1883, A., 327, 329.
- 1:3-Dihydroxybenzene. See Resorcinol.
- 1:4-Dihydroxybenzene. See Quinol.
- Dihydroxybenzenes, action of dichloro-ether on (WISLICHENUS and SIEGFRIED), 1888, A., 374.
- benzyl ethers of (PELLIZZARI), 1884, A., 487.
- 2:4-Dihydroxybenzenylamidoxime (β -resorcenylamidoxime) (MARCUS), 1892, A., 317.
- Dihydroxybenzodiphenyldipyrzalone (BONIGER), 1889, A., 879.
- 3:5-Dihydroxybenzoic acid, action of chlorine on (ZINCKE and FUCHS), A., 1461.
- 2:4-Dihydroxybenzoic acid (β -resorcyllic acid), thermochemistry of (STOHMANN, KLEBER and LANGBEIN), 1889, A., 1096.
- Dihydroxybenzoic acid, *di*- and *tri*-chloro- (ZINCKE and FUCHS), 1892, A., 1461.
- Dihydroxybenzophenone (DALE and SCHORLEMMER) 1883, T., 187.
- o*-Dihydroxybenzophenone and its derivatives (GRAEBE and FEER), 1887, A., 152.
- o*-*p*-Dihydroxybenzophenone (*salicylphenol*), and its derivatives (MICHAEL), 1884, A., 311.
- p*-Dihydroxybenzophenone (KLINGER and STANDKE), 1891, A., 900.
- oxime of (SPIEGLER), 1884, A., 1182.

- Dihydroxybenzophenones, α - and β -, and their compounds (STAEDEL), 1883, A., 991.
- Dihydroxybenzophenonesulphonic acid (*dihydroxybenzoylbenzenesulphonic acid*), ammonium salt of (REMSEN and LINN), 1889, A., 710.
- Di-*p*-hydroxybenzoyl-*p*-hydroxybenzoic acid (KLEPL), 1884, A., 447.
- Dihydroxybenzoylphosphinic acid (VILLE), 1890, A., 619.
- Dihydroxybenzylidenephosphinic acid (VILLE), 1889, A., 141.
- o*-Dihydroxybenzylidenediphenylene (REULAND), 1890, A., 166.
- Di-*o*-hydroxybenzylidenethylenediamine (MASON), 1887, A., 493.
- Dihydroxybutane, *mono*- and *di*-chloro- (ZIKES), 1885, A., 1046.
- Dihydroxybutanedisulphonic acid (PRZYBYTEK), 1888, A., 245.
- $\alpha\beta$ -Dihydroxybutyric acid (*propylene-glycolcarboxylic acid*) (KOLBE), 1883, A., 574; (MELIKOFF), 1884, A., 1301.
- $\beta\gamma$ -Dihydroxybutyric acid (FITTIG), 1892, A., 957.
- iso*-Dihydroxybutyric acid (*3\gamma*-*dihydroxybutyric acid*) (FITTIG and KOCHS), 1892, A., 958.
- 3':1'-Dihydroxycarbostyryl (v. BAAYER and HOMOLKA), 1884, A., 79.
- Dihydroxy-*o*-carboxyphenylpropionic acid, lactone of (ZINCKE), 1892, A., 720.
- Dihydroxychloralaliphosphine (DE GIRARD), 1884, A., 1119.
- Dihydroxyperchloromethylecyanidine (TSCHERVEN-IWANOFF), 1892, A., 1291.
- Dihydroxycinchonic acid (*dihydroxyquinoline-4-carboxylic acid*) (GOLD-SCHMIEDT), 1888, A., 302.
- Dihydroxycinnamic acid. See Caffeic acid.
- o*-Dihydroxy-compounds, reagent for (STAHL), 1892, A., 1133.
- Dihydroxycoumarin (TEMANN and WILL), 1883, A., 200.
- cis*-Dihydroxy- ψ -cumene (HJELT and GAUD), 1886, A., 615.
- Dihydroxydibenzylacetic acid (PERKIN and STENHOUSE), 1891, T., 1002; P. 43.
- o*-Dihydroxydibenzylamine (EMMERICH), 1888, A., 50.
- Dihydroxydiethylmethylaniline (KNORR), 1889, A., 1218.
- Dihydroxydiethoxybenzene (NIETZKI and RECHBERG), 1890, A., 968.
- 2':4'-Dihydroxy-3':4'-dihydroquinoline (*hydroxyhydrocarbostyryl*) (EINHORN), 1884, A., 1838.
- 2':4'-Dihydroxy-3':4'-dihydroquinoline (*hydroxyhydrocarbostyryl*), 3-chloro- (EICHENGRUN and EINHORN), 1890, A., 1128; 1891, A., 1100.
- Dihydroxydihydroquinolinelactone (LIEBERMANN and KLEEMANN), 1887, A., 43.
- Dihydroxydiketo-pentamethylene and -pentamethylenecarboxylic acid (HANTZSCH), 1888, A., 132.
- Dihydroxydiketotetrahydronaphthalene (ZINCKE), 1892, A., 859.
- Dihydroxydimethoxybenzene (WILL), 1888, A., 458.
- Dihydroxydimethylanthraquinones, isomeric (v. KOSTANECKI and NIEMENTOWSKI), 1885, A., 1240.
- Dihydroxydimethylbenzophenone (SCHROETER), 1890, A., 899.
- Dihydroxydimethylcinnamic acids (*dimethylumbellac acids*) (WILL), 1884, A., 68; (WILL and BECK), 1886, A., 880.
- Dihydroxydimethyldiphenylmethane (DIANIN), 1889, A., 1187.
- Dihydroxydimethyldiquinoxaline (NIETZKI and MÜLLER), 1889, A., 605.
- Dihydroxydimethylglutaric acid (AUWERS and JACKSON), 1890, A., 1099; (ZELINSKY), 1892, A., 437.
- lactone and dilactone of (ZELINSKY), 1892, A., 436, 437.
- Dihydroxydimethylglutaric acids, stereoisomerism of (ZELINSKY), 1892, A., 436.
- Dihydroxydimethylheptamethylene (KIPPING and PERKIN), 1889, P., 145; 1891, T., 217.
- synthesis of (KIPPING and PERKIN), 1891, T., 214; P., 24.
- constitution of (KIPPING and PERKIN), 1891, T., 221.
- action of hydroxylamine and of phenylhydrazine on (KIPPING and PERKIN), 1891, T., 221.
- condensation product of (KIPPING and PERKIN), 1891, T., 228.
- sodium derivative of (KIPPING and PERKIN), 1891, T., 220.
- Dihydroxydimethylpurin (FISCHER), 1884, A., 997.
- Dihydroxydimethyltriphenylmethane (SCHROETER), 1890, A., 898.
- Dihydroxydinaphthylidene disulphide (LANGE), 1888, A., 375.
- Dihydroxydinaphthylphenylmethane (DOEBNER), 1890, A., 902.
- Dihydroxydiphenylamine (SEYEWITZ), 1890, A., 369.

- Dihydroxydiphenylamine**, *di*bromo- (MÖHLAU), 1884, A., 594.
- o*-**p**-**Dihydroxydiphenylcarbinol** (MICHAEL), 1884, A., 311.
- p*-**Dihydroxydiphenyltrichlorethane**, *di*- and *tetra*-nitro- (ELBS and HOERMANN), 1889, A., 998.
- Dihydroxydiphenyldibenzylmethane** (v. BOGDANOWSKA), 1892, A., 851.
- Dihydroxydiphenyldimethyldiazobenzophenylmethane** (MAZZARA), 1885, A., 904.
- Dihydroxydiphenylic mono- and di-sulphides**. See Hydroxyphenylic *mono*- and *di*-sulphides.
- Dihydroxydiphenylic sulphoxide** (SCHALL and UHL), 1892, A., 1077.
- Dihydroxydiphenylpentane** (DIANIN), 1889, A., 1187.
- Dihydroxydipropyldiphenylcarbamidedicarboxylic acid** (WIDMAN), 1884, A., 1023.
- β -Dihydroxydiquinoline** (ROSER), 1884, A., 1372; (WEIDEL and GLÄSER), 1886, A., 950.
- Dihydroxydiquinoyl**. See Rhodizonic acid.
- Dihydroxydurylic acid** (NEF), 1886, A., 241; 1887, A., 255; 1888, T., 435.
- "**Dihydroxyethenylphenylenediamine**" (ASCHAN), 1886, A., 147.
- 3-Dihydroxy-2-ethoxyanthraquinone** from anthragallol (LIEBERMANN and JELLINEK), 1888, A., 716.
- p*-**Dihydroxyethoxyquinone**, chloro- (KEHRMANN), 1891, A., 904.
- m*-**Dihydroxyethoxyquinoxaline** (AUTENRIETH and HINSBERG), 1892, A., 160.
- p*-**Dihydroxyethoxyquinoxaline** (AUTENRIETH and HINSBERG), 1892, A., 734.
- Dihydroxyethylaniline** (KNORR), 1889, A., 1219.
- 3:4-Dihydroxy-1-ethylbenzene** (SEMPOTOWSKI), 1890, A., 55.
- Dihydroxyethylbenzene** (*styrolene alcohol*), hydrocarbon ($C_{10}H_{12}$) from (ZINCKE and BREUER), 1885, A., 269; (ZINCKE), 1887, A., 959.
- Dihydroxyethylpyridinecarboxylic acid** (*ethylcomenamic acid*) (MENNEL), 1885, A., 1203.
- Dihydroxy-3'-ethylquinoline** (MEYER and HOFFMANN), 1888, A., 970.
- Dihydroxy-3'-ethylquinoline**, α - and β - (MEYER and HOFFMANN), 1888, A., 43.
- cis***trans-p-Dihydroxyhexamethylene** (v. BAERER), 1892, A., 833.
- Dihydroxyhexane** (*hexylenic δ -glycol*) (LIPP), 1886, A., 219; (PERKIN), 1887, T., 722.
- Dihydroxyhexoic acid** [m.p. 152°] (LIEBEN and ZEISER), 1888, A., 571.
- Dihydroxyhexoic acid lactone and salts** of (FITTIG and HILLERT), 1892, A., 959.
- iso***Dihydroxyhexoic acid lactone and salts** of (FITTIG and HILLERT), 1892, A., 959.
- o*-**Dihydroxyhydrobenzoin and diiso-anhydride** of (TIEMANN), 1892, A., 168, 167.
- p*-**Dihydroxyisohydrobenzoin** (TIEMANN), 1886, A., 460.
- o*-**Dihydroxyhydrobenzoins**, isomeric (TIEMANN), 1892, A., 167.
- Dihydroxyhydrolapachic acid** (HOOKER), 1891, A., 1239.
- Dihydroxyhydrolapachol** (HOOKER), 1892, T., 647.
- Dihydroxylamine barium and cadmium chlorides** (CRISMER), 1890, A., 559.
- zinc chloride** (CRISMER), 1890, A., 558.
- m*-**Dihydro-xylene** (WALLACH), 1890, A., 1314.
- Dihydro-p-xylene**, synthesis of (v. BAERER), 1892, A., 1182.
- Dihydroxymaleic acid**, the so-called (HENDRIXSON), 1890, A., 958.
- Dihydroxymesitylene** (*mesitylenic glycol*) (ROBINET and COLSON), 1883, A., 1095.
- 2':4'-Dihydroxy-p-methoxy-3':4'-dihydroquinoline** (EICHENGÜN and EINHORN), 1891, A., 1098.
- Dihydroxymethylantraquinone** (*chrysophanic acid*) (GRANDIS), 1892, A., 1354.
- reactions for distinguishing, from the santonia colouring matter in urine (HOPPE-SEYLER), 1887, A., 406.
- β -Dihydroxymethyl- ψ -carbostyryl** (FRIEDLÄNDER and MÜLLER), 1887, A., 978.
- m*- **α -Dihydroxymethylcoumarilic acid** (LANG), 1887, A., 263.
- Dihydroxymethylcoumarin** (v. PECHMANN and DUNBERG), 1884, A., 67.
- 4:6-Dihydroxy- β -methylcoumarin** (v. PECHMANN and COHEN), 1885, A., 57.
- Dihydroxymethyldihydroquinolinecarboxylic acid** (KROLIKOWSKI and NENCKI), 1888, A., 865.
- 2':4'-Dihydroxymethyl-3'-ethylquinoline** (RUGHEIMER and SCHRAMM), 1887, A., 738; 1888, A., 502.

- 2':4'-Dihydroxy-1-methylquinoline, 3'-chloro- (*chlorohydroxy-o-tolucarbostyryl*) (RUGHEIMER and HOFFMANN), 1886, A., 160.
- Dihydroxy-2'-methylquinoline-derivatives, synthesis of (CONRAD and LIM-PACH), 1888, A., 853.
- β -o-Dihydroxy- α -naphthaldehyde (BRADLEY and DAINS), 1892, A., 1459.
- 1:4'-Dihydroxynaphthalene (ARMSTRONG and WYNNE), 1887, P., 43.
- 1:1'(?)-Dihydroxynaphthalene (MELDOLA and HUGHES), 1890, T., 633.
- 1:3'-Dihydroxynaphthalene (CLAUS), 1889, A., 714.
- 2:2'-Dihydroxynaphthalene (CLAUSIUS), 1890, A., 627.
- 1:1'-dichloro- and 1:3:3':1'-tetrachloro- (CLAUSIUS), 1890, A., 629.
- Dihydroxynaphthalene, action of, on blood (LÉPINE), 1888, A., 184.
- Dihydroxynaphthalenedicarboxylic acid (CLAUS and MEIXNER), 1888, A., 612.
- Dihydroxynaphthalenedisulphonic acid, sodium ammonium salt of (WITT), 1889, A., 273.
- Dihydroxynaphthalenes, isomeric (ERDMANN), 1889, A., 157.
- Dihydroxynaphthalenes, 1:2'- and 2:3'- (EMMERT), 1888, A., 57.
- Dihydroxy- α -naphthaquinone (*hydroxyjuglone*) and its derivatives (MYLIUS), 1885, A., 803.
- 3:4-Dihydroxy-1:2-naphthaquinone (BAMBERGER and KITSCHOLT), 1889, A., 494; (ZINCKE), 1892, A., 720.
- 2':3'-Dihydroxynaphthaquinoxaline (KÜHLING), 1892, A., 70.
- Dihydroxynaphthoxanthenes (BENER), 1892, A., 1100.
- 2':2:1-Dihydroxynaphthylamine (CLAUSIUS), 1890, A., 628.
- $\alpha\beta$ -Dihydroxynaphthylamine, hydrochloride of (KORN), 1884, A., 1186.
- Dihydroxyisonicotinamide (RUHEMANN), 1888, A., 728.
- Dihydroxy-*nitroberberine* (MARFORI), 1889, A., 628.
- 1:3-Dihydroxy-*nitrodiphenylamine* (NIETZKI and SCHÜNDELEN), 1892, A., 310.
- p*-Dihydroxy-*nitrodiphenyltrichloroethane* (ELBS and HOERMANN), 1889, A., 998.
- Dihydroxycenanthylphosphinic acid (VILLE), 1889, A., 1135.
- Dihydroxypentane [b.p. 260°] (*pentyl-enic glycol*) (GUSTAVSON and DEMJANOFF), 1889, A., 950; (DEMJANOFF), 1892, A., 1292.
- Dihydroxypentane [b.p. 260°] (*pentyl-enic glycol*), oxides of (DEMJANOFF), 1892, A., 1292.
- Dihydroxypentane [b.p. 220°]. See γ -Amylene glycol.
- Dihydroxypentenecarboxylic acid, dichloro- (HANTZSCH), 1888, A., 131; 1889, A., 853.
- trichloro- (HANTZSCH), 1888, A., 130; 1889, A., 853; (HOFFMANN), 1889, A., 856.
- Dihydroxyphenazine (FISCHER and HEPP), 1890, A., 801.
- Dihydroxyphenoquinone, tetrachlorodibromo- (BENEDIKT), 1883, A., 984.
- Dihydroxyphenoxypropane (*phenylglycol*) (LINDEMANN), 1891, A., 1198.
- 3:5-Dihydroxyphenylacetic acid (CORNELIUS and V. PECHMANN), 1886, A., 802.
- Dihydroxyphenylacrylic acid. See Caffeic acid.
- $\alpha\gamma$ -Dihydroxy- γ -phenylbutyric acid, lactone of (BIEDERMANN), 1892, A., 472.
- $\beta\gamma$ -Dihydroxy- γ -phenylbutyric acid (FITTIG), 1888, A., 595; (FITTIG and OBERMÜLLER), 1892, A., 986.
- Dihydroxyphenylbutyrolactone, bromo- (FISCHER and STEWART), 1892, A., 1447.
- $\alpha\beta$ -Dihydroxyphenylpropionic acid. See β -Phenylglyceric acid.
- Dihydroxyphenylquinoline [m.p. 114°] (WEIDEL), 1887, A., 847.
- p*-Dihydroxyphenylthiocarbamide (KALCKHOFF), 1883, A., 1110.
- Dihydroxyphenylvaleric acid (FITTIG and MAYER), 1892, A., 986.
- Dihydroxyphosphinic acids (VILLE), 1889, A., 1134; 1890, A., 618.
- $\alpha'\gamma$ -Dihydroxy- α -picoline (COLLIE and MYERS), 1892, T., 722.
- $\alpha'\beta'$ -Dihydroxy- α -picoline, di- and trichloro- (HOFFMANN), 1889, A., 856.
- Dihydroxypicoline dibromide (COLLIE and MYERS), 1892, T., 724.
- Dihydroxypiperohydronic acids, $\alpha\beta$ - and $\beta\gamma$ - (V. REGEL), 1887, A., 488.
- Dihydroxypropanetricarboxylic acid, and its salts (KILIANI), 1885, A., 744.
- $\alpha\beta$ -Dihydroxypropionic acid. See Glyceric acid.
- Dihydroxypyridine (KOENIGS and GEIGY), 1884, A., 1369; (WEIDEL and BLAU), 1886, A., 76.
- salts of (KOENIGS and GEIGY), 1884, A., 1369.

- 2:6-Dihydroxypyridine, 4-amido-. See Glutazine.
- Dihydroxypyridinecarboxylic acid (*orimidocmanic acid*) (OST), 1884, A., 1802.
- Dihydroxypyridinecarboxylic acid (*comenamic acid*) (OSF), 1883, A., 792.
- 2:4-Dihydroxypyridine-5- or 6 (?) -carboxylic acid, 3-nitro- (BISCHOFF), 1889, A., 519.
- 2:6-Dihydroxypyridine-3-carboxylic acid. See Citrazinic acid.
- Dihydroxypyromellitic acid (*quinol-tetracarboxylic acid*) (NEF), 1888, T., 453.
- pyrazolone derivative of (NEF), 1890, A., 984.
- anhydride of (NEF), 1890, A., 984.
- Dihydroxyquinoline (LELLMANN), 1887, A., 973.
- α -Dihydroxyquinoline [m.p. 130°—136°] (LA COSTE and VALEUR), 1886, A., 629.
- β -Dihydroxyquinoline [m.p. 68°] (LA COSTE and VALEUR), 1886, A., 629; 1888, A., 297.
- 1:2'-Dihydroxyquinoline (*hydroxycarbo-styryl*) (V. BAAYER and BLOEM), 1883, A., 197; (FRIEDLANDER and WEINBERG), 1883, A., 351.
- 1:4-Dihydroxyquinoline (CLAUS and POSSELT), 1890, A., 523.
- 1:1'-Dihydroxyquinoline, 2:4-dichloro- (HEDEBRAND), 1889, A., 61.
- Dihydroxyisquinoline, chloro- (RÜGHEIMER), 1886, A., 702.
- Dihydroxyquinolines, 2':3'- and 2':4'- (FRIEDLANDER and WEINBERG), 1883, A., 351.
- 2':4'-Dihydroxyquinoline-3'-carboxylic acid (BISCHOFF), 1889, A., 519.
- 2':4'-Dihydroxyquinoline-3'-oxime (*quinisotocime*) (V. BAAYER and HOMOLKA), 1884, A., 1029.
- 2':4'-Dihydroxyquinolinesulphonic acid (V. BAAYER and BLOEM), 1883, A., 197.
- Dihydroxyquinone, dichloro-. See Chloranilic acid.
- nitramido-, potassium salt of (NIETZKI and BENCKISER), 1885, A., 779.
- 2:5-Dihydroxyquinone (NIETZKI and SCHMIDT), 1888, A., 1181.
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- 2:5-Dihydroxyquinone, 3:6- diamido- (NIETZKI and SCHMIDT), 1888 A., 948.
- 3-chloro- (KEHRMANN and TIESLER), 1890, A., 242.
- 2:5-Dihydroxyquinone, 3-chloro-, action of aniline on (KEHRMANN), 1890, A., 756.
- 6-chloro-3-iodo- (KEHRMANN and TIESLER), 1890, A., 242.
- β -imido- (NIETZKI), 1884, A., 58.
- nitro- (NIETZKI and SCHMIDT), 1889, A., 968.
- 3:6-Dihydroxyquinone (LOEWY), 1886, A., 1028.
- 2:5-dinitro-. See Nitranilic acid.
- Dihydroxyquinones, action of, on *o*-diamines (NIETZKI and HASTERLIK), 1891, A., 944.
- action of hydroxylamine hydrochloride on (KEHRMANN and TIESLER), 1890, A., 493.
- Dihydroxyquinonephenazine (NIETZKI and SCHMIDT), 1888, A., 690.
- Dihydroxyquinoxaline (BLADIN), 1885 A., 257, 786.
- Dihydroxysebacic acid (CLAUS and STEINKAULER), 1888, A., 184.
- Dihydroxyshikimic acid (ENKMAN), 1891, A., 920.
- Dihydroxystearic acid (SAYTZEFF), 1886, A., 140; (SPIRIDONOFF), 1889, A., 123; (GRÖGER), 1889, A., 690.
- Dihydroxystearic acids (M., C., and A. SAYTZEFF), 1888, A., 816.
- o*-Dihydroxystilbene (HARRIES), 1892, A., 168.
- p*-Dihydroxystilbene (ELBS and HOERMANN), 1889, A., 997.
- Dihydroxystilbenediamine (JAPP and HOOKER), 1884, T., 680.
- action of acetic and benzoic anhydrides on (JAPP and HOOKER), 1884, T., 683.
- Dihydroxysuccinic acid. See Tartaric acid.
- Dihydroxytartaric acid (*carbonyltartonic acid*) (KEKULÉ), 1884, A., 41; (MILLER), 1889, A., 1149.
- action of carbamide and thiocarbamide on (ANSCHÜTZ and GELDERMANN), 1891, A., 725.
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- Dihydroxyterephthaldihydroxamic acid (JEANRENAUD), 1889, A., 871.

- 3:6-Dihydroxyterephthalic acid (*quinollicarboxylic acid*; *quinonehydrodicarboxylic acid*) (WEDEL), 1884, A., 884.
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- 3:6-Dihydroxyterephthalic acid, *di-bromo-* (BÜNIGER), 1888, A., 954.
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- Dihydroxytetrahydroterephthalic acid [m.p. 191°] (JEANRENAUD), 1889, A., 872.
- Dihydroxythiobenzene, properties of (TASSINARI), 1891, A., 186.
- Dihydroxythiobenzenes (TASSINARI), 1889, A., 245; 1892, A., 1316.
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- 2:3-Dihydroxytoluene, synthesis of (LIMPACH), 1892, A., 447.
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- 2:6-Dihydroxytoluene (ULLMANN), 1884, A., 1317.
- 3:5-Dihydroxytoluene. See *Orcinol*.
- 2:4-Dihydroxy-1:3- or -1:5-toluic acid (*resorcinolcarboxylic acid*) (V. KOSTANECKI), 1886, A., 242.
- 5:3-Dihydroxy-*o*-toluic acid (*resorcelinic acid*), and its salts (JACOBSEN and WIERNIS), 1883, A., 1121.
- 5:3-Dihydroxy-*p*-toluic acid (WEINREICH), 1887, A., 669.
- Dihydroxytoluic aldehyde (*oreylaldehyde*) (V. PECHMANN and WELSH), 1884, A., 1346.
- Dihydroxytoluquinone (ZINCKE), 1883, A., 1118.
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- 3:6-Dihydroxytoluquinone, 5-nitro- (*tolunitranilic acid*) (KEHRMANN), 1888, A., 940; (KEHRMANN and BRÄUCH), 1889, A., 969.
- Dihydroxytoluinoxaline (BLADIN), 1885, A., 785; (HINSBERG), 1886, A., 82.
- Dihydroxytolylcarbamide (SÜDERBAUM and WIDMAN), 1889, A., 972.
- p*-Dihydroxytriphenylmethane, and its derivatives (RUSSANOFF), 1889, A., 1188; 1891, A., 1234.
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- Dihydroxyundecylic acid (HAZURA and GRÜSNER), 1889, A., 375.
- Dihydroxyvaleric acid (*α* -*dinethylglyceric acid*) (MELIKOFF), 1886, A., 1009; 1887, A., 30; (MELIKOFF and PETRENKO-KRITSCHENKO), 1892, A., 297.
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- 3:4-Dihydroxyxanthone (GRAEBE and EICHENGRUN), 1891, A., 707.
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- Di-*o*-hydroxy-*m*-xylene (*m-cylenic glycol*) (COLSON), 1884, A., 1313.
- Di-*o*-hydroxy-*o*-xylene (*o-cylenic glycol*) (COLSON), 1884, A., 1000.
- 2:4-Dihydroxy-*m*-xylene (*dinactylresorcinol*) (WISCHIN), 1891, A., 74.
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- 3:5-Dihydroxy-*p*-xylene (V. KOSTANECKI), 1887, A., 39.
- Dihydroxyxylenes (*xylenic glycols*), saponification of the haloid derivatives of, by neutral substances (COLSON), 1885, A., 146.
- Diimide, attempts to prepare (THIELE), 1892, A., 1430.
- Diketodihydropentene, *tetrachloro-* (ZINCKE and RABINOWITSCH), 1891, A., 691.
- 2':4'-Diketodihydroquinazoline (ABT), 1889, A., 609.
- Diketoheptane. See *Methyl isobutyl diketone*.
- m*-Diketoexamethylene, *heptachloro-* (ZINCKE and RABINOWITSCH), 1891, A., 690.
- Diketoexamethylene-dioxime and *diphenylhydrazone* (V. BAEYER and NOYES), 1889, A., 1147, 1148.
- Diketoheptanes. See *Methyl propyl diketones*.
- a*-Diketoheptene, *hexachloro-* (ZINCKE), 1890, A., 964.
- m*-Diketoheptene, *hexachloro-* (ZINCKE and FUCHS), 1892, A., 1461.

- o*-Diketohexene, *hexachloro*-, action of phosphoric chloride on, and behaviour of, on heating (ZINCKE and KUSTER), 1891, A., 819.
- p*-Diketohexene, *hexachloro*-, (ZINCKE and FUCHS), 1892, A., 447.
- pentachloroamido*-, (ZINCKE and FUCHS), 1892, A., 450.
- $\alpha\beta$ -Diketohexylene (OTTE and V. PECHMANN), 1889, A., 1139.
- α -Diketohydrindene (WISLIGENUS), 1888, A., 1194; (WISLIGENUS and KOTZLE), 1889, A., 1067.
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- Diketohydrindene, dioxime of (WISLIGENUS and KOTZLE), 1889, A., 1067.
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- Diketohydronaphthalene, *tetrachloro*-, (ZINCKE), 1888, A., 489.
- and its decomposition products (ZINCKE and COOKSEY), 1890, A., 784.
- o*-Diketohydronaphthalene, *tetrachloro*-, its hydrates and alcoholates (ZINCKE and ARNST), 1892, A., 858.
- 2':2-Diketohydronaphthalene, *deca*-chloro-, (CLATNITS), 1890, A., 629.
- Diketohydronaphthalene hydrate, *tri*-chloro-, (ZINCKE), 1888, A., 158.
- $\alpha\beta$ -Diketohydronaphthalene hydrate, *dichloronitro*-, (ZINCKE and SCHARFENBERG), 1892, A., 1232.
- $\alpha_1\alpha_2$ -Diketo- γ -methyljulole (REISERT), 1892, A., 496.
- Diketones (BEHAL and ATGER), 1890, A., 388.
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- action of diamines on (COMBES), 1889, A., 851.
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- action of methylhydrazine on (KOHLE-RAUSCH), 1890, A., 24.
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- o*-Diketones, colour reaction exhibited by (BAMBERGER), 1885, A., 307.
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- α -Diketones (V. PECHMANN), 1888, A., 811.
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- β -Diketones, action of hydroxylamine on (HANTZSCH), 1891, A., 739.
- γ -Diketones, action of phenylhydrazine on (JAPP and HUNTLY), 1888, T., 184; P., 11.
- Diketonic acids (KUES and PAAL), 1887, A., 261.
- $\alpha\beta$ -Diketo-octane, secondary (OTTE and V. PECHMANN), 1889, A., 1138.
- Diketopentamethylene derivatives, action of amines on (INCE), 1890, A., 1090.
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- Diketopentamethylenecarboxylic acid, chloro-, (HANTZSCH), 1888, A., 132.
- $\alpha\delta$ -Diketopentane-carboxylic acids, *mono*- and *ε-dichloro*-, (HANTZSCH), 1889, A., 854.
- $\alpha\beta$ -Diketopiperazines (BISCHOFF and NASTVOGEL), 1889, A., 1015.
- $\alpha\gamma$ -Diketopiperazines (BISCHOFF and NASTVOGEL), 1889, A., 1011.
- Diketotetrahydrobenzene, *hexachloro*-, (ZINCKE and KUSTER), 1888, A., 1277.
- Dilactylic acid (TANATAR and TSCHELERBEFF), 1891, A., 177.
- Dilactylic acids, α - and β -*mono*- and β -thio-, (LOVÉN), 1884, A., 1298, 1299.
- Dilatometer, differential, and its application in an investigation on the formation of alums (SPRING), 1884, A., 887.
- Dilauryl-carbinol and -carbinyl acetate (KIPPING), 1890, T., 983, 984.
- Dilituric acid (CERENOLE), 1883, A., 913.
- Diluents, influence of, on the illuminating power of gases (FRANKLAND), 1884, T., 227.
- Dilution, influence of, on the rate of chemical reactions (DE LA CROIX), 1884, A., 1090.

- Dilution constants, electromotive (MIEN-
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- 1:3-Dimethoxybenzene (*resorcinyll di-
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- Dimethoxybenzoic acid, *di*bromo- (V.
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- Di-*o*-methoxybenzylidene-ethylenedi-
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- Dimethoxydichloroquinol (KEHR-
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- Dimethoxydichloroquinols, α - and β -
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- Dimethoxydichloroquinone (KEHR-
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- Dimethoxycinchonic acid (GOLD-
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- m*-*o*-Dimethoxycinnamic acid (SCH-
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- Dimethoxyconiferin (*syriagin*) (KÜR-
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- Dimethoxyconiine (V. HOFMANN), 1885,
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- Dimethoxydiethylacetone (JAMES), 1886,
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- Dimethoxydihydroxybenzene (*dimethyl-
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- Dimethoxydimethylbenzidine
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- Dimethoxydimethylmalonic acid (KLE-
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- Dimethoxydinaphthalenes, α - and β -
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- Dimethoxydinaphthylenemethane (DIA-
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- p*-Dimethoxydiphenylpiperazine (BIS-
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- Dimethoxyditolylquinone (NIETZKI),
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- Dimethoxyhydrocarboxystyryllactone
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- Dimethoxyindigo (RIECHE), 1889, A.,
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- p*- γ -Dimethoxy-2'-methylquinoline
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- Dimethoxyphenylcrotonic acid (*di-
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- Dimethoxyphenylglyoxylic acid (CIA-
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- Dimethoxyquinazoline (ABT), 1889, A.,
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- Dimethoxystilbenes, *o*- and *p*- (KOPP),
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- Dimethoxyterephthalic acid (NEF),
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- o*-Dimethoxy-*m*-tolidine (BRASCH and
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- Dimethyl diketone** (*diacetyl*), derivatives of (V. PECHMANN), 1888, A., 811.
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- Dimethyl diketone**, *dibromo-* (FITTIG, DAIMLER and KELLER), 1889, A., 491.
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- Dimethyl diketonecarboxylic acid** (*ketipic acid*) (FITTIG and DAIMLER), 1887, A., 362; (FITTIG, DAIMLER and KELLER), 1889, A., 490.
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- Dimethylacetosacetic acid** (CERESOLE), 1883, A., 41.
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- Dimethylacetylbutylamine** (LIPP), 1892, A., 1244.
- Dimethylacetylene** and its *tetrabromides* (FAWORSKY), 1890, A., 1220.
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- Dimethylacetylenedicarbamide** (FRANCHIMONT and KLOBBE), 1889, A., 126.
- $\alpha\alpha'$ -Dimethylacetylhexoic acid** (KIPPING and MACKENZIE), 1891, T., 570, 584.
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- Di- α -methyl- β -acetylpropionic acid** (*mesitonic acid*) (ANSCHUTZ and GILLET), 1888, A., 1272.
- $\alpha\beta$ -Dimethylacraldehyde** (LIEBEN and ZEISEL), 1886, A., 783; (HAYMANN), 1889, A., 487.
- Dimethylacridine** (BONNA), 1887, A., 928.
- Dimethylacridinium hydroxide** (BERNTSEN), 1884, A., 1856.
- Dimethylacrylic acid** (*pentenoic acid*) (HORBOFF and KESSLER), 1888, A., 814.
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- β -Dimethylacrylic acid**, and its salts (USTINOFF), 1886, A., 140; 1887, A., 359.
- s -Dimethyladipic acid** (ZELINSKY; AUWERS and MEYER), 1890, A., 132.
- Dimethyladipic acids**, stereoisomeric (ZELINSKY), 1892, A., 430.
- Dimethylæsculetin** (TIEMANN and WILL), 1888, A., 199.
- Dimethylalloxanphenylhydrazone** (KÜHLING), 1892, A., 442.
- Dimethylalloxazine** (KÜHLING), 1891, A., 1842.
- Dimethylallylcarbinol**, bye-product of the preparation of (DIEFF), 1883, A., 1076.
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- Dimethylallylene** (*pentinene*), action of hydrogen chloride on (KONDAKOFF), 1889, A., 1127.
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- $\alpha\beta$ -Dimethylallylic alcohol** (LIEBEN and ZEISEL), 1886, A., 784.
- Dimethylamarine**, formula of (CLAY), 1883, A., 204.
- s -Dimethylamides** (HENRY), 1885, A., 887.
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- p -Dimethylamidobenzaldoxime** (KÖHLER and BOESNECK), 1888, A., 267.
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- Dimethyl- mono- and -di-amidobenzhydrols** and their derivatives (ALBRECHT), 1889, A., 263, 264.
- p -Dimethylamidobenzoic acid**, nitroso-, and its derivatives (BISCHOFF), 1889, A., 511.
- Dimethylamidobenzophenone**, nitroso- (BISCHOFF), 1889, A., 511.
- Dimethyldiamidobenzophenone**, *tetra-nitro-* (VAN ROMBURGH), 1888, A., 1079, 1197.

- p*-Dimethylamidobenzylidenephénylhydrazine (KNOFLER and BOESSNECK), 1888, A., 267.
- β -Dimethylamidocrotonanilide (KNORR), 1892, A., 708.
- Dimethylamidocyanuric acid and chloride (V. HOFMANN), 1886, A., 40.
- Dimethylamidodicarbimidoamidobenzoic acid (GRIESS), 1885, A., 1225.
- Dimethylamidodiphenylamine (FISCHER and WACKER), 1888, A., 1286.
- d*-nitro- (LELLMANN and MACK), 1890, A., 1410.
- Dimethyl-*tri*-amidodiphenylamine (KEHRMANN and MESSINGER), 1892, A., 1109.
- Dimethyl-*di*-amidodiphenylmethane (ALBRECHT), 1889, A., 264.
- Dimethyl-*tri*-amidodiphenyltolylmethane (NOLTING), 1891, A., 727; 1892, A., 189.
- Dimethylamidohexylene (TAFEL and NEUGEBAUER), 1890, A., 1001.
- Dimethylamidohydroquinoline hydrochloride (OSTERMAYER), 1885, A., 814.
- Dimethylamidomethylhydroquinoline dimethiodide (ZIEGLER), 1888, A., 610.
- Dimethylamidomethylphenazine (BERNTSEN and SCHWEITZER), 1887, A., 139.
- Dimethylamidomethylthiazole (HANTZSCH and WEBER), 1888, A., 257.
- α -Dimethylamido- α -naphtha-phenazine and -tolazine (EICKER), 1891, A., 471.
- Dimethyl-*m*-amidophenetol (VOM BAUR and STAEDEL), 1883, A., 579.
- Dimethylamidophenol, *d*-nitro-, and its derivatives (LIPPMANN and FLEISSNER), 1886, A., 235.
- Dimethyl-*m*-amidophenol, nitroso- (MÜHLAU), 1892, A., 887.
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- Dimethylamidophenylarsine oxide and sulphide (MICHAELIS and RADINERSON), 1892, A., 1321.
- Dimethylamidophenyl-*tri*-chloromethylcarbinol (BOESSNECK), 1885, A., 976.
- Dimethylamidophenylethane (HEUMANN and WIENNIK), 1887, A., 1039.
- Dimethyl-*p*-amidophenyl ethylxanthate (LEUCKART), 1890, A., 605.
- Dimethylamidophenyl-phosphinous and -phosphonic acids (SCHENK and MICHAELIS), 1888, A., 834.
- Dimethylamidophenylphosphorous chloride (SCHENK and MICHAELIS), 1888, A., 834.
- Dimethylamidophenylquinoneimide (*phenol-blue*) (MÜHLAU), 1884, A., 594; 1886, A., 146; (FOGH), 1888, A., 592.
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- Dimethylamidopropionic acid (DUVILLIER), 1892, A., 1802.
- Dimethylamidoquinoline (LA COSTE), 1883, A., 811.
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- Dimethyl-*mono*- and -*di*-quinoxazones (MÜHLAU), 1892, A., 888.
- Dimethylamidosulphonic chloride and its derivatives (BEHREND), 1884, A., 285.
- Dimethylamine, properties of (V. HOFMANN), 1889, A., 688.
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- Dimethylamine chlororhodate (VINCENT), 1886, A., 811.
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- Dimethylanilinesulphonic acid** (MICHAELIS and GODCHAUX), 1890, A., 610.
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- 2:3-Dimethylanthraccene** (ELBS and EURICH), 1887, A., 841.
- 1:3-Dimethylanthraccene**, *di*bromo- (ELBS), 1890, A., 511.
- Dimethylanthrachrysone** (CAHN), 1886, A., 556.
- "*m*-Dimethylanthracylene"** (ELBS), 1890, A., 511.
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- Dimethylanthramine** (BOLLERT), 1883, A., 1139.
- 1:3-Dimethylanthranol** (ELBS), 1890, A., 511.
- Dimethylanthraquinone** [m.p. 236°] (ANSCHÜTZ and ROMIG), 1885, A., 768.
- α -*m*- β -Dimethylanthraquinone** (ELBS), 1886, A., 557.
- 1:4-Dimethylanthraquinone** (ELBS), 1890, A., 512.
- Dimethylanthraquinones**, 1:3- and 2:3- (ELBS and GUNTHER; ELBS and EURICH), 1887, A., 841.
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- Dimethylanthrone** (HALLGARTEN), 1883, A., 1202.
- Dimethylapionole** (*dimethoxydihydroxybenzene*) (CIAMICIAN and SILBER), 1889, A., 407; 1890, A., 35.
- Dimethylapionylcarboxylic acid** (BARTOLOTTI), 1892, A., 1315.
- Dimethylarsinic acid** (*cacodylic acid*), action of, in the animal economy (MARSHALL and GREFF), 1886, A., 730.

- Dimethylasparagine (KÜRNER and MENOZZI), 1890, A., 870.
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- Dimethylazobenzene, *tetranitro-* (MERTENS), 1886, A., 1022.
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- Dimethylbenzaldehyde (HINRICHSSEN), 1889, A., 131, 391.
- Dimethylbenzamide, *nitro-* (VAN ROMBURGH), 1886, A., 546.
- Dimethylbenzidine, *tetranitro-* (VAN ROMBURGH), 1887, A., 245.
- 2:2'-Dimethylbenzimidazole (BAMBERGER and BERLÉ), 1892, A., 632.
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- 2:3-Dimethylbenzoic acid (*hemimellithylic acid*) (JACOBSEN), 1887, A., 36.
- 2:4-Dimethylbenzoic acid (*xylic acid*), *bromo-* (GUNTER), 1884, A., 1347.
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- 3-nitro-* (CLAUS), 1890, A., 980.
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- 2:5-Dimethylbenzoic acid (*p-xylic acid*), *bromo-*, and its salts (GUNTER), 1884, A., 1347.
- 3:5-Dimethylbenzoic acid (*mesitylenic acid*), thermochemistry of (STOHMANN, KLEBER and LANGBEIN), 1889, A., 1096.
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- "Dimethylbutylallylcarbinamine" (MERLING), 1891, A., 1506.
- Dimethylisobutylallylcarbinol (SCHATZKI), 1885, A., 237.
- 2:6-Dimethyl-4-isobutylpyridine (*isobutylutidine*) (ENGELMANN), 1886, A., 260.
- 2:6-Dimethyl-4-isobutylpyridine-3:5-dicarboxylic acid (ENGELMANN), 1886, A., 260.
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- Dimethylcarbostyryl (KNORR), 1888, A., 1111.
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- 1':4'-Dimethyl-ψ-carbostyryl (KNORR), 1887, A., 159; (KNORR and KLOTZ), 1887, A., 278; (REISSERT), 1892, A., 498.
- Dimethylcarbostyrylsulphonic acid (KNORR), 1888, A., 1111.
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- Dimethyl-*m*-chloraniline and its salts (VOM BAUR and STAEDEL), 1883, A., 579.
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- Dimethyltrichlorobromobenzeneazammonium iodide (ZINCKE and ARZBERGER), 1889, A., 502.
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- Dimethylcoumarone (HANTZSCH and LANG), 1886, A., 706.
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- aa'*-Dimethyl-*aa'*-diacetylpentane** (KIPPING and MACKENZIE), 1890, P., 116; 1891, T., 570, 587.
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- 2:6-Dimethyl-*m*-diazine, 4-amido-**. See Cyanmethine.
- Dimethyl-dicoumaric acid and -dicoumarin** (HANTZSCH and ZÜRCHER), 1887, A., 830.
- Dimethyldiethylammonium chloride and hydroxide, action of heat on** (COLLIE and SCHRYVER), 1890, T., 780.
- Dimethyldiethylindamine thiosulphonate** (BERNTHSEN), 1889, A., 778.
- Dimethyldiethyl-*p*-phenylenediamine** (LIPPMANN and FLEISSNER), 1884, A., 179.
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- Dimethyldiethylphosphonium chloride, action of heat on** (COLLIE), 1888, T., 720.
- Dimethyldiethylsulphonamide** (BERREND), 1884, A., 286.
- Dimethyldihydrazimethylene** (CURTIUS and THUN), 1891, A., 1356.
- s*-Dimethyldihydroanthracene** (ANSCHÜTZ and ROMIG), 1885, A., 768.
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- as*-Dimethyldihydroanthracene** (HALLGARTEN), 1888, A., 1202.
- Dimethyldihydronaphthol** (CANNIZZARO), 1884, A., 327.
- Dimethyldihydronaphthylpropionic acids (*dihydrosantinic acids*)** (GUAY and GRASSI-CRISTALDI), 1892, A., 871.
- Dimethyldihdropentene methyl ketone** (PERKIN and STENHOUSE), 1892, T., 77.
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- Dimethyldihdropentenedicarboxylic acid** (PERKIN and STENHOUSE), 1892, T., 81.
- Dimethyldihdropyridine** [b.p. 199°] (GAUTIER and MOURGUES), 1888, A., 1315.
- βγ*-Dimethyldihydroquinazoline** (GABRIEL and JANSEN), 1892, A., 218.
- Dimethyldiketohexamethylene** (v. BAAYER), 1892, A., 1183.
- Dimethyldiketohydrindene** (WISLICENUS and KOTZLE), 1889, A., 1068.
- Dimethyldimethylenetrisulphone** (BAUMANN), 1890, A., 1093.
- Dimethyldipiperidyl** [b.p. 265°], and its derivatives (LADENBURG), 1892, A., 1487.
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- iso*Dimethyldipropyl-*l*thiozamide** (WALLACH and REINHARDT), 1891, A., 1008.
- aa'*-Dimethyldipyridyl** (HEUSER and STOEHR), 1891, A., 80.
- ββ'*-Dimethyldipyridyl** (STOEHR and WAGNER), 1892, A., 629.
- "Dimethyldiquinizininhydrobenzene"** (KNORR and BÜLOW), 1884, A., 1381.
- Di-2'-methyldiquinolyl** (HINZ), 1888, A., 39.
- Dimethyldiquinolyl** [m.p. 162°] (v. MILLER), 1888, A., 966.
- Dimethyldiquinolyl** [m.p. 104°—105°] (ELIASBERG and FRIEDLÄNDER), 1892, A., 1107.
- p*-Dimethyldisalicylaldehyde** (BRADLEY and DAINS), 1892, A., 1459.
- Dimethyldisulphisethionic acid, sodium salt of** (ENGELKE), 1883, A., 972.
- Dimethyldisulphobenzoic acid, salts of** (STENGEL), 1883, A., 1000.
- Dimethylenedisulphone, derivatives of** (AUTENRIETH), 1887, A., 463.
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- Dimethylenemethane** (GUSTAVSON and DEMJANOFF), 1889, A., 30.
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- Dimethylenethylenedisulphone** (FASBENDER), 1888, A., 805.
- 1:4-Dimethyl-6-ethylaniline** (HODGKINSON and LIMPACH), 1892, T., 420; P., 56.
- Dimethylethylazimethylene** (CURTIUS and THUN), 1891, A., 1355.
- 1:3-Dimethyl-5-ethylbenzene** (ANSCHÜTZ and ROMIG), 1885, A., 769; (JACOBSEN), 1887, A., 37; (TOHL and GEYGER), 1892, A., 969.
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- 2':3'-Dimethyl-1'-ethyl-1':2'-dihydroquinoline** (FISCHER and STECHE), 1887, A., 976.
- Dimethylethylenediamine** (ANGELI), 1890, A., 954.

- Dimethylethylenedisulphone** (OTTO and CASANOVA), 1888, A., 255.
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- 2':3'-Dimethyl-1'-ethylindole** (WOLFF), 1889, A., 259.
- Dimethylethyl-naphthalene** (GUCCI and GRASSI-CRISTALDI), 1892, A., 872.
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- 2:6-Dimethyl-4-ethylpyridine** and salts of (ENGELMANN), 1886, A., 259.
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- 2:6-Dimethyl-4-ethylpyridine-3:5-dicarboxylic acid** (ENGELMANN), 1886, A., 259.
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- Dimethylethylsuccinic acid** (BISCHOFF and MINTZ), 1890, A., 743; 1891, A., 290; (BISCHOFF), 1891, A., 329.
- Dimethylethylsulphine**, preparation of (CARRARA), 1892, A., 1422.
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- Dimethylethylthymoquinol** (REYCHLER), 1892, A., 1312.
- Dimethylformamide**, platinumchloride of (PINNER), 1883, A., 1089.
- Dimethylformamidine**, and its hydrochloride (PINNER), 1883, A., 731.
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- Dimethylgentisic acid** (SCHNELL), 1887, A., 140.
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- Dimethylglutaric acid**, relative properties of trimethylsuccinic acid and (ZELINSKY and BESBEDKA), 1891, A., 669.
- αα-Dimethylglutaric acid** (AUWERS and JACKSON), 1890, A., 1099.
- s-Dimethylglutaric acid** (BISCHOFF), 1890, A., 1099; (AUWERS and KÖBNER), 1891, A., 1015.
- Dimethylglutaric acids** (GUTHZEIT and DRESSER), 1890, A., 873; (AUWERS and KÖBNER), 1891, A., 1016.
- s-Dimethylglutaric acids**, isomeric (ZELINSKY), 1890, A., 132.
- αα-Dimethylglutaric anhydride** (AUWERS and JACKSON), 1890, A., 1099.
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- αβ-Dimethylglyceric acid**. See Dihydroxyvaleric acid.
- αβ-Dimethylglycidic acid** (MELIKOFF), 1886, A., 1009; 1888, A., 1177.
- Dimethylglycoluril** (FRANCHIMONT and KLOBBE), 1888, A., 1180; 1889, A., 126.
- Dimethylglyoxaline** (*oxa-methylethylene*), synthesis of (RADZISZEWSKI), 1883, A., 728.
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- Dimethylheptamethylene** (KIPPING and PERKIN), 1891, T., 227.
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- α-Dimethylheptylethylene** (*nonylene*) (FREUND and SCHÖNFELD), 1892, A., 133.
- Dimethylhexadecylbenzene** (KLAFFT and GÖTTIG), 1889, A., 130.
- 2:6-Dimethylhexahydropyridine** (*hypetidine*) (LADENBURG), 1887, A., 64.
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- Dimethylhexylazimethylene** (CURTIUS and THUN), 1891, A., 1355.
- Dimethylhexylarbinol** (*nonylic alcohol*) (FREUND and SCHÖNFELD), 1892, A., 133.
- Dimethylhexyl-hexahydropyridine and -pyridine** (JAECKLE), 1888, A., 1104.
- Dimethylhomogentisic acid** (WOLKOW and BAUMANN), 1891, A., 1129.
- Dimethylhomo-o-phthalimide** (GABRIEL), 1887, A., 51, 726.

- Dimethylhomopyrocatechol** (GOLD-SCHMIEDT), 1884, A., 186.
- 2:4-Dimethylhydropyridine** (LADENBURG and ROTH), 1885, A., 816.
- Dimethyl acetylenedicarboxylate** (v. BANDROWSKI), 1883, A., 313.
- amidocyanurate** (v. HOFMANN), 1886, A., 930.
- barium phosphate** (LOSSEN and KÜHLER), 1891, A., 1015.
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- carbopyrotitarate** (KNORR and CAVALLLO), 1889, A., 385.
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- diacetylacemate**, molecular weight of (ANSCHÜTZ), 1888, A., 1273.
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- $\Delta_{1,4}$ -dihydroterephthalate**, heats of combustion and formation of (STOHMANN and KLEBER), 1891, A., 376.
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- succinosuccinate** (EBERT), 1885, A., 1122.
- α -sulphaminephthalate** (MOULTON), 1891, A., 1063.
- terephthalate** and **Δ_1 -tetrahydroterephthalate**, heats of combustion and formation of (STOHMANN and KLEBER), 1891, A., 376.
- Dimethylimidomethylthiazoline** (TRACMANN), 1889, A., 415.
- Dimethylimidothiazoline** (NÄF), 1891, A., 1516.
- Dimethylindamine thiosulphonate** (BERNTHSEN), 1889, A., 778.
- 2':3'-Dimethylindazole** (*dimethylindazine*) (FISCHER and TAFEL), 1885, A., 542.
- 1':3'-Dimethylisindazole** (FISCHER and TAFEL), 1885, A., 543.
- $\beta\gamma$ -Dimethylindene**, *m*-amido- (v. MILLER and ROHDE), 1890, A., 1138.
- Dimethylindigo** (FLIMM), 1890, A., 383.
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- 2:2'-Dimethylindole** (RASCHEN), 1887, A., 956.
- 2:3'-Dimethylindole** (FISCHER), 1886, A., 805; 1887, A., 149; (WOLFF), 1888, A., 371.
- 4:1'-Dimethylindole** (HEGEL), 1886, A., 552.
- Dimethylindoles** (FISCHER), 1887, A., 148.
- Dimethylindoles**, 1':2'- and 1':3'- (DEGEN), 1887, A., 149.
- Dimethylindoleacetic acid** (FISCHER), 1886, A., 806.
- 1':2'-Dimethylindole-1'-carboxylic acid** (FISCHER), 1886, A., 806; (DEGEN), 1887, A., 149.
- 2:1'-Dimethylindole-2-carboxylic acid** (HEGEL), 1886, A., 552.
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- Dimethyliodamine** (RASCHIG), 1886, A., 44.
- Dimethylketol** (v. PECHMANN), 1889, A., 1137; (v. PECHMANN and DAHL), 1890, A., 1234.
- Dimethylketopentene** (DIETZEL), 1889, A., 594.
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- Dimethyllevulinic acid** (ZELINSKY), 1887, A., 921.
- α -Dimethyllevulinic acid** (*mesitonic acid*) (ANSCHÜTZ and GILLET), 1888, A., 1272.
- s*-Dimethylmaleic acid** (*pyrocinchonic acid*) (ROSER), 1883, A., 93.
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- s*-Dimethylmaleic α - and β -phenylhydrazines** (ORTO and HOLST), 1890, A., 1327.
- Dimethylmaleinifluorescein** (BURCKHARDT), 1886, A., 51.
- Dimethylmalonamide** (FREUND), 1884, A., 728.
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- d*-nitro-** (FRANCHIMONT), 1886, A., 449.
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- thermochemistry of** (STOHMANN, KLEBER and LANGBEIN), 1889, A., 1097.

- o-p*-Dimethylmandelic acid (CLAUS), 1890, A., 979.
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 Dimethylmethylenhydrazine (CURTIUS and PFLUG), 1892, A., 457.
 Dimethylmethylenimidosulphonic acid (KRAFFT and BOURGEOIS), 1892, A., 701.
 Dimethylmethylenesulphone (BAUMANN and KAST), 1889, A., 1232.
 Dimethylmethylenethioglycollic acid (BONGARTZ), 1888, A., 479.
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 Dimethylnaphthaeurhodine (WITTE), 1888, A., 491; (EICKER), 1891, A., 471.
 Dimethylnaphthalene [b.p. 265°] (CANNIZZARO and CARNELUTTI), 1888, A., 79; (CANNIZZARO), 1884, A., 328.
 Dimethylnaphthaloxazine (KÜHLING), 1892, A., 70.
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 2', 4'-Dimethyl- β -naphthaquinoline (REED), 1888, A., 370; 1887, A., 681.
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 2'' : 3''-Dimethyl- α -naphthindole (WOLFF), 1889, A., 259.
 2''-3''-Dimethyl- β -naphthindole (STECHE), 1888, A., 235; (WOLFF), 1889, A., 259.
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 2:6-Dimethylnicotinic acid (*dimethylpyridinecarboxylic acid*) (WEISS), 1886, A., 720.
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 Dimethylorcinols (KRAUS), 1891, A., 1347.
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 $\alpha\gamma$ -Dimethylisoxazole, reduction of (CLAISEN), 1892, A., 507.
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 3:5-Dimethylpentamethylenemethylcarbinol (PERKIN and STENHOUSE), 1892, T., 79.
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 Dimethylphenanthroline (V. MILLER), 1891, A., 1105.
 Dimethylphenylacetic acid, α -nitro-, and its salts (WISPEK), 1888, A., 1096.
 Dimethylphenylenediamine (*amidodimethylaniline*), action of aldehydes on (CALM), 1885, A., 387.
 Dimethyl-*m*-phenylenediamine (GROLL), 1886, A., 347; (STAEDEL and DAUER), 1886, A., 941.
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p-Dimethyl-*o*-phthalic acid (GUCCI and GRASSI-CRISTALDI), 1892, A., 872.
 Dimethylphthalide (KOTHE), 1889, A., 257.
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 2:4-Dimethylpicolinic acid (*dimethylpyridinecarboxylic acid*) (ALTAR), 1887, A., 378.
 $\alpha\alpha'$ -Dimethylpimelic acid (KIPPING and MACKENZIE), 1890, P., 117; 1891, T., 570, 577, 587; (PERKIN and PRENTICE), 1891, T., 832.
 $\omega\omega'$ -Dimethylpimelic acid, dissociation constant of (WALKER), 1892, T., 701.

- Dimethylpimelic acids**, stereoisomeric (ZELINSKY), 1892, A., 430.
- Dimethyl- α -pipecolylammonium iodide** (MERLING), 1891, A., 1508.
- Dimethylpiperazine** [b.p. 153°—158°] (SCHMIDT and WICHMANN), 1892, A., 212.
- γ -Dimethylpiperazine** (LADENBURG), 1891, A., 1333.
- 1:2-Dimethylpiperidine** (*methyl- α -pipecoline*) (LADENBURG), 1883, A., 1154.
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- Dimethylpiperidine**, action of bromine on (MERLING), 1887, A., 164.
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- Dimethylpiperidines**, $\alpha\alpha'$ - and $\alpha\gamma$ - (LADENBURG), 1887, A., 64, 65.
- Dimethylisopropenylcarbinol**. See Dimethyl- β -allylcarbinol.
- Dimethylisopropylallylcarbinol** and its derivatives (DIÉFF), 1883, A., 1076; (KONONOWITSCH), 1885, A., 497.
- 2:6-Dimethyl-4-propylhexahydropyridine** (*propyllypyridine*) (JAECKLE), 1888, A., 1104.
- 2:6-Dimethyl-4-propylpyridine** (*propyl-lutidine*) (JAECKLE), 1888, A., 1104.
- Dimethylpropylpyridinedicarboxylic acid** (*propyl-lutidinedicarboxylic acid*) (JAECKLE), 1888, A., 1104.
- Dimethylpropylsuccinic acid** (BISCHOFF), 1891, A., 829.
- Dimethylpyridine** (*lutidine*) (LADENBURG and ROTH), 1885, A., 994.
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- 2:4-Dimethylpyridine** (HANTZSCH), 1883, A., 85; 1885, A., 397; (LADENBURG and ROTH), 1885, A., 557, 816; (LADENBURG), 1887, A., 59; (LUNGE and ROSENBERG), 1887, A., 499.
- α -bromo-** (PFEIFFER), 1887, A., 845.
- 2:5-Dimethylpyridine** (LUNGE and ROSENBERG), 1887, A., 499.
- 2:6-Dimethylpyridine** (LADENBURG and ROTH), 1885, A., 557; (EPSTEIN), 1885, A., 815; 1886, A., 258; (ROTH and LANGE), 1886, A., 558; (LADENBURG), 1887, A., 59; (COLLIE), 1891, T., 177.
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- 2:6-Dimethylpyridine**, oxidation of (COLLIE), 1891, T., 178.
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- 3:5-Dimethylpyridine** (DÜRKOPF and GÜTTSCH), 1890, A., 1002.
- Dimethylpyridinecarboxylic acid** (DÜRKOPF and GÜTTSCH), 1890, A., 795.
- 2:4-Dimethylpyridine-3-carboxylic acid** (*2:4-lutidino-3-carboxylic acid*) (MICHAEL), 1885, A., 1244.
- 2:4-Dimethylpyridine-6-carboxylic acid** (*dimethylpicolinic acid*) (ALTAR), 1887, A., 378.
- 2:6-Dimethylpyridine-5-carboxylic acid** (*2:6-dimethylnicotinic acid*) (WEISS), 1886, A., 720.
- 2:4-Dimethylpyridine-3:5-dicarboxylic acid** (DÜRKOPF and GÜTTSCH), 1890, A., 1002.
- 2:4-Dimethylpyridine-3:6- or -5:6-dicarboxylic acid** and its salts (MICHAEL), 1885, A., 62.
- 2:6-Dimethylpyridine-3:5-dicarboxylic acid** (ENGELMANN), 1886, A., 259.
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- Dimethylpyridines**, isomeric separation of (OECHSNER DE CONINCK), 1883, A., 740.
- 2:4-Dimethylpyridinetricarboxylic acid** and its salts (HANTZSCH), 1883, A., 85.
- 2:6-Dimethylpyridone** (*lutidone*) (CONRAD and GUTHZEIT), 1887, A., 508; (COLLIE), 1891, T., 177.
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- 2:6-Dimethylpyridone-3-carboxylic acid** (COLLIE), 1891, T., 176.
- 2:6-Dimethylpyridone-3:5-dicarboxylic acid** (CONRAD and GUTHZEIT), 1887, A., 500.
- 2:4-Dimethylpyridone**. See ψ -Lutido-styryl.
- Dimethylpyridylquinoline** (*lutidyl-quinoline*) (LEPETIT), 1887, A., 1053.
- 2:6-Dimethylpyridinetricarboxylic acid** (EPSTEIN), 1886, A., 258.
- 2:4-Dimethylpyrocoll** (MAGNANINI), 1889, A., 58.
- Dimethylpyrroline** (FEIST), 1889, A., 957.
- Dimethylpyrrolidine** (CIAMICIAN and MAGNAGHI), 1885, A., 1243; (TAFEL), 1889, A., 977; (TAFEL and NEUGEBAUER), 1890, A., 1000.
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- Dimethylpyrrolidine methiodide** (CIAMICIAN and MAGNAGHI), 1885, A., 1243; (TAFEL and NEUGEBAUER), 1889, A., 1016.
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- Dimethylpyrrolidone** (TAFEL and NEUGEBAUER), 1889, A., 1016.
- 2:5-Dimethylpyrrolidyl dimethylammonium chloride** (MERLING), 1891, A., 1508.
- 2:5-Dimethylpyrroline** (KNORR), 1884, A., 1368; 1885, A., 995; (DENNSTEDT), 1889, A., 1209.
- $\alpha\beta$ -**Dimethylpyrroline**, molecular weight of (MAGNANINI), 1890, A., 906.
- m*-**Dimethylpyrroline**, derivatives of (MAGNANINI), 1889, A., 408.
- $\alpha\delta$ -**Dimethylpyrroline**, derivatives of (MAGNANINI), 1889, A., 57.
- Dimethylpyrrolines** (DENNSTEDT), 1889, A., 1209.
- Dimethylpyrrolineacetic acid** (KNORR), 1887, A., 276.
- 2:4-Dimethylpyrroline-3-carboxylanilide** (KNORR), 1887, A., 277.
- Dimethylpyrrolinecarboxylic acid** [m.p. 197°] (KNORR), 1884, A., 1368.
- 2:4-Dimethylpyrroline-5-carboxylic acid** (MAGNANINI), 1889, A., 409.
- 2:5-Dimethylpyrroline-4-carboxylic acid and its salts** (KNORR), 1885, A., 994.
- 2:4-Dimethylpyrroline-3:5-dicarboxy-acetic acid** (KNORR), 1887, A., 276.
- 2:4-Dimethylpyrroline-3:5-dicarboxylic acid**, *mono*- and *di*-anilides of (KNORR), 1887, A., 277.
- imineanhydride of (MAGNANINI), 1889, A., 58.
- 2:5-Dimethylpyrroline-3:4-dicarboxylic acid and its salts** (KNORR), 1885, A., 994.
- Dimethylpyrrol styryl ketone** [m.p. 166°] (DENNSTEDT), 1889, A., 1210.
- 2:4-Dimethylpyrrol styryl ketone** (DENNSTEDT), 1889, A., 1209.
- 2:5-Dimethylpyrrol-*m*-benzoic acid** (PAAL and SCHNEIDER), 1886, A., 559.
- Dimethylpyrrolene diketone** (*di- ψ -acetylpyrroline*) (CIAMICIAN and DENNSTEDT), 1885, A., 378; (CIAMICIAN and SILBER), 1885, A., 308, 993; 1886, A., 74.
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- 2:5-Dimethylpyrrol-*o*-phenol** (PAAL and SCHNEIDER), 1886, A., 559.
- Dimethylquercetin**. See Rhamnetin.
- Dimethylquinitol** (V. BALTER), 1892, A., 1183.
- Dimethylquinogen and its derivatives** V. PEHRMANN, 1888, A., 813.
- Dimethylquinol**. See Xyloquinol.
- 1:2'-Dimethylquinoline** (*o-toluquinoldine*), oxidation of (V. MILLER), 1891, A., 1095.
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- 1:3-Dimethylquinoline** (*xyloquinoline*), 4-amido- (NÖLTING and TRAUTMANN), 1891, A., 325; 1892, A., 729.
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- 1:4-Dimethylquinoline** (LEHMANN and ALT), 1887, A., 592.
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- 2:2'-Dimethylquinoline** (*methylquinoldine*) (RISF), 1891, A., 329.
- 2:3'-Dimethylquinoline** (ROHDE), 1887, A., 974; 1889, A., 523; (ELIASBERG and FRIEDLÄNDER), 1892, A., 1107.
- 2:4-Dimethylquinoline** (BEREND), 1885, A., 274.
- 2:4'-Dimethylquinoline** (BEYER), 1885, A., 1246; 1886, A., 629; (COMBES), 1888, A., 505.
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- 3:4- or 2:3-Dimethylquinoline**, and its derivatives (BEREND), 1884, A., 1197.
- 3:4'-Dimethylquinoline** (*4'-methyl- β -toluquinoline*) (V. MILLER), 1890, A., 1325.
- Dimethylquinolines and their derivatives** (DOEBNER and V. MILLER), 1884, A., 184.
- Dimethylquinolines**, 3':4'-, 4':1- and 2:4'- (KNORR), 1888, A., 1112.
- 1:2'-Dimethylquinoline-3-carboxylic acid** (PANAJOTOW), 1887, A., 382.
- o-p*-Dimethylquinoline- α -carboxylic aldehyde** (PANAJOTOW), 1890, A., 1158.
- 1:3-Dimethylquinolinesulphonic acid** (PANAJOTOW), 1887, A., 382.
- 1:4-Dimethylquinolinesulphonic acids** (*1:4-xyloquinolinesulphonic acids*) (NÖLTING and FRÜHLING), 1889, A., 164.

- 1':2'-Dimethyl-4'-quinolone (*dimethyl- ψ -quinorol*). See 4'-Hydroxy-1':2'-dimethylquinoline.
- 1':4'-Dimethylquinolone (*methylleptilone*) (KNORR), 1887, A., 159.
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- Dimethylquinolthiocarbamide (BATS-SLER), 1884, A., 1330.
- Dimethylquinoltrimethylammonium iodide (BATS-SLER), 1884, A., 1329; 1887, A., 364.
- 1:3-Dimethylquinolyl- α -acrylic acid (PANAJOTOW), 1887, A., 382.
- Dimethylquinophenol (BEREND), 1884, A., 1197.
- Dimethylquinoxaline (*methyltoluquinoline*) (HINSBERG), 1886, A., 561.
- 3':4'-Dimethylquinoxaline, tetrachloro- (LEVY, WITTE and CURCHOD), 1890, A., 232.
- 3':4'-Dimethylquinoxaline-*m*-carboxylic acid (ZEHR), 1891, A., 303.
- Dimethyl- ψ -quinoxalines, $\alpha\beta$ - and $\beta\gamma$ - (WEDDIGE), 1887, A., 1044.
- Dimethylracemic acid (FITTIG, DAIMLER and KELLER), 1889, A., 491; (BOTTINGER), 1892, A., 698.
- Dimethylresorcinol (2:4-*dihydroxy-m-sylene*) (WISCHIN), 1891, A., 74.
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- Dimethylresoreyl pentadecyl ketone (KRAFF), 1888, A., 1087.
- Dimethyl- α -resoreylic acid, amido- and nitro- (MEYER), 1888, A., 148.
- Dimethyl- β -resoreylic acid (V. PECHMANN and DUISBERG), 1884, A., 67; (V. PECHMANN and COHEN), 1884, A., 1331.
- Dimethylrubbadin (SCHALL and UHL), 1892, A., 1077.
- Dimethylsafranine hydrochloride (MENTON), 1891, A., 1205.
- p*-Dimethylstilbene (ANSCHÜTZ and WIRTZ), 1885, T., 901; A., 1064.
- Dimethylstilbene sulphide, *diamido*- (ANSCHÜTZ and SCHULTZ), 1889, A., 602.
- Dimethylstrychnine (TAFEL), 1890, A., 1448.
- isoDimethylstrychnine (TAFEL), 1891, A., 1264.
- 3-Dimethylsuccinamic acid, α -dichloro- (OTTO and HOLST), 1890, A., 958.
- Dimethylisosuccinamide (FRANCHI-MONT), 1886, A., 449.
- Dimethylsuccinic acid (BISCHOFF and JAHNSNICKER), 1891, A., 290.
- as*-Dimethylsuccinic acid (LEVY and ENGLÄNDER), 1888, A., 133; (BARNSTEIN), 1888, A., 135; (BISCHOFF and V. KÜHLBERG), 1890, A., 742.
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- p-s*-Dimethylsuccinic acid (*hydropyrocinchonic acid*) (BISCHOFF and RAU), 1885, A., 885; 1886, A., 1012; (OTTO and RÜSSING), 1888, A., 45.
- s*-Dimethylsuccinic acid, α -dichloro-substitution products of (OTTO and HOLST), 1890, A., 957.
- Dimethylsuccinic acids, action of bromine on (HELL and ROTHBERG), 1889, A., 371.
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- as*- and *s*- (LEUCKART), 1885, A., 1200.
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- s*-Dimethylsuccinic acids (OTTO and BECKURTS), 1885, A., 754; (BISCHOFF and RAU), 1885, A., 885; 1886, A., 1012; (BISCHOFF and VOIT), 1889, A., 490; 1890, A., 743.
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- as*-Dimethylsuccinic anhydride (BARNSTEIN), 1888, A., 135.
- s*-Dimethylsuccinic anhydride, α -dichloro- (OTTO and HOLST), 1890, A., 957.
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- Dimethylsuccinimidine hydrochloride (PINNER), 1883, A., 1089.
- Dimethylsuccinonitrile (HELL and ROTHBERG), 1889, A., 959.
- s*-Dimethylsulphonamide (FRANCHI-MONT), 1885, A., 969.

- s*-Dimethylsulphonamide, *dinitro*- (FRANCHIMONT), 1885, A., 969.
- Dimethylsulphonamides, action of nitric acid on (FRANCHIMONT), 1885, A., 969.
- Dimethylsulphonedicarboxylic acid. See Sulphonediacetic acid.
- Dimethylsulphone-diethyl- and -dimethyl-methanes (BAUMANN and KAST), 1889, A., 1233.
- Dimethylsulphonemethylethylmethane (BAUMANN and KAST), 1889, A., 1233.
- Dimethyl-tartaramide and -tartarimide, *tetrachloro*- (LEVY, WHITE and CURRHOD), 1890, A., 233.
- Dimethyltaurine, preparation of (JAMES), 1885, T., 370.
- β -Dimethyltaurine and dimethyltaurocarbamic acid (GABRIEL), 1890, A., 128.
- Dimethyltaurocyamine, formation of (JAMES), 1885, T., 374.
- 2:5-Dimethylterephthalic acid (CLAUS), 1890, A., 982.
- 2:6-Dimethylterephthalic acid (CLAUS), 1890, A., 981.
- Dimethyl- α -tetrahydronaphthylamine (BAMBERGER and HELWIG), 1889, A., 892.
- Dimethyl- β -tetrahydronaphthylamines, aromatic and alicyclic (BAMBERGER and MÜLLER), 1889, A., 890, 891.
- 1:2-Dimethyl- Δ^2 -tetrahydropyridine (LIPP), 1892, A., 1243.
- Dimethyltetrahydroquinoline (FISCHER and STECHE), 1887, A., 976; (ZATTI and FERRATINI), 1892, A., 614.
- 1:2'-Dimethyltetrahydroquinoline (DOEBNER and V. MILLER), 1884, A., 183; (MÜLLER), 1888, A., 297.
- 1:3-Dimethyltetrahydroquinoline (BAMBERGER and WULZ), 1891, A., 1255.
- 1':3'-Dimethyltetrahydroquinoline (FISCHER and STECHE), 1887, A., 976.
- 1:4-Dimethyltetrahydroquinoline (BEREND), 1886, A., 261.
- 1':4'-Dimethyltetrahydroquinoline (KNORR and KLOTZ), 1887, A., 279.
- Dimethyltetrahydroquinolinium hydroxide (FEER and KOENIGS), 1885, A., 1245.
- $\alpha\beta$ '-Dimethyltetramethylenediamine (CIAMICIAN and ZANETTI), 1890, A., 1155; 1891, A., 1503.
- as*-Dimethyltetraphenylethane (WILLGERODT and SCHIFF), 1890, A., 959.
- Dimethylthalline iodide, quaternary (SKRAUP), 1886, A., 80.
- Dimethylthetin-*mono*- and -*di*-carboxylic acids (DELLALE), 1892, A., 1433.
- $\alpha\alpha$ '-Dimethylthiazole (HANTZSCH), 1888, A., 574.
- $\alpha\mu$ -Dimethylthiazole (HANTZSCH), 1889, A., 723.
- $\beta\mu$ -Dimethylthiazole (HUTSCHER), 1891, A., 222.
- $\alpha\mu$ -Dimethylthiazole- β -carboxylic acid (RUBLEFF), 1891, A., 224.
- Dimethylthiocarbamide (HECHT), 1890, A., 477.
- as*-Dimethylthiocarbamide (SPICA and CARRARA), 1892, A., 216.
- Dimethylthioformalidium iodide (WOHL), 1887, A., 28.
- Dimethylthiohydantoin (MARKWALD, NEUMARK and SIELZNER), 1892, A., 151.
- Dimethylthiohydantoins, α - and β - (ANDREASCH), 1888, A., 47.
- Dimethylthionine (BERNTSEN and GOSKE), 1887, A., 667.
- Dimethylthionoline (*methylene-violet*) (BERNTSEN), 1886, A., 54.
- Dimethylthiophen (*thiofen*, *thiarylene*), method of obtaining (SCHULZE), 1885, A., 251.
- Dimethylthiophen [D.P. 139°] (DEMUTH), 1886, A., 871.
- 2:3-Dimethylthiophen (PAAL), 1887, A., 1101; (GRUNEWALL), 1888, A., 48.
- 2:4-Dimethylthiophen and its derivatives (ZELINSKY), 1887, A., 921.
- 2:5-Dimethylthiophen, synthesis of (PAAL), 1885, A., 1205.
- from coal-tar, derivatives of (MENSINGER), 1885, A., 767, 1052, 1205.
- di*- and *tri*-bromo- (PAAL), 1885, A., 1206.
- 3:4-Dimethylthiophen (ZELINSKY), 1888, A., 939.
- 2:4-Dimethylthiophen-5-carboxylic acid (GATTERMANN), 1888, A., 575.
- Dimethylthiorescinol (OBERMEYER), 1888, A., 124.
- Dimethyl*d*thiotetrahydrotriazole (HECTOR), 1892, A., 293.
- Dimethyl*d*thioxamide (WALLACH and REINHARDT), 1891, A., 1008.
- Dimethyltolenylamidine salts (GLOCK), 1888, A., 1290.
- Dimethyl-*o*-toluidine, action of formaldehyde on (ALEXANDER), 1892, A., 1320.
- Dimethyl-*p*-toluidine, action of, on ethylenic bromide (HUBNER, TÖLLE and ATHENSTÄDT), 1884, A., 1317.

- Dimethyl-*o*- and -*p*-toluidines**, preparation of (REINHARDT and STAEDL), 1883, A., 578.
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- Dimethyltoluindamine thiosulphonate** (BERTHSEN), 1889, A., 778.
- Dimethyltoluquinoline**. See Trimethylquinoline.
- Dimethyltoluinoxaline**. See Trimethylquininoxaline.
- Dimethyltrimethylenedisulphone-sulphide** (CAMPS), 1892, A., 593.
- Dimethyltrimethylenetrisulphone** (CAMPS), 1892, A., 591, 593.
- Dimethyltropine**, decomposition of, by heat (LADENBURG), 1883, A., 672.
- Dimethylumbellie acids**, α - and β - (*dihydroxydimethylcinnamic acids*) (WILL), 1884, A., 68; (WILL and BECK), 1886, A., 830.
- $\alpha\beta$ -Dimethylumbelliferone** (v. PECHMANN and DUISBERG), 1884, A., 67.
- β -6-Dimethylumbelliferone** (v. PECHMANN and COHEN), 1885, A., 56.
- $\alpha\beta$ -Dimethylumbelliferonecarboxylic acid** (v. PECHMANN), 1892, A., 432.
- Dimethyluracil** (BEHREND; HOFFMANN), 1890, A., 31.
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- Dimethyluric acids** (FISCHER), 1884, A., 1308.
- α -Dimethylvalerolactone** (ANSCHUTZ and GILLET), 1888, A., 1272.
- β -Dimethylvalerolactone** (*isohexylolactone*) (FITZIG and ZANNER), 1890, A., 590.
- Dimethylxanthone** (WEBER), 1892, A., 1093.
- Dimethyl-*o*-xylylidine** (MENION), 1891, A., 1205.
- Dimethylxylylidines** (VOM BARR and STAEDL), 1883, A., 579.
- Dimethylxyloquinols**, *o*-, *m*- and *p*- (NOLTING and WERNER), 1891, A., 210.
- Dimethylxylylphosphine** (CZIMATTI), 1883, A., 58.
- α -Dinaphthadiquinone** (ELSBACH), 1883, A., 70.
- β -Dinaphthalene oxide** (WALDER), 1883, A., 209.
- β -Dinaphthenylimidine** (PINNER), 1892, A., 1110.
- α -Dinaphthylbenzil** (BANDROWSKI), 1889, A., 147.
- α -Dinaphthol** (JULIUS), 1883, A., 161.
- β -Dinaphthol** (WALDER), 1883, A., 208; (JULIUS), 1888, A., 161.
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- Dinaphthols**, isomeric, derivatives of (OSTERMAYER and ROSENHER), 1885, A., 171.
- α -Dinaphtholbenzylidenesulphonic acid**, barium salt of (KAFKA), 1891, A., 721.
- β -Dinaphtholdisulphonic acid**, barium salt of (JULIUS), 1888, A., 161.
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- β -Dinaphtholtetrasulphonic acid**, barium salt of (JULIUS), 1888, A., 161.
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- $\beta\beta$ -Dinaphthoylcarbamide** (EKSTRAND), 1887, A., 840.
- Dinaphthoylhydroxamic acids**, $\alpha\alpha$ -, $\beta\beta$ -, and $\alpha\beta$ - (EKSTRAND), 1887, A., 840.
- $\alpha\alpha$ -Dinaphthyl** (WALDER), 1883, A., 209; (WEGSCHEIDER), 1884, A., 1185.
- $\alpha\beta$ -Dinaphthyl** (WEGSCHEIDER), 1884, A., 1185.
- Dinaphthyl derivatives** (JULIUS), 1888, A., 161.
- Dinaphthyl**, *d*-amido-, and its derivatives (NIETZKI and GOIL), 1886, A., 245; (JULIUS), 1887, A., 56.
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- $\beta\beta$ -Dinaphthyl** (*isodinaphthyl*) (WEGSCHEIDER), 1884, A., 1185.
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- β -Dinaphthyl ketone**, boiling point of (SCHWEITZER), 1891, A., 1240.
- β -Dinaphthyl ketone oxide** (CLAUS and RUPPEL), 1890, A., 510.
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- Dinaphthylamidinecarbamide** (PINNER), 1892, A., 1008.
- Di- α -naphthylamidoocyanuric chloride** (FRIEDL), 1886, T., 315, 740.
- Dinaphthyl*d*-amido-*o*-diazothioles**, α - and β - (HECTOR), 1890, A., 526, 527.
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- $\alpha\beta$ -Dinaphthylamine**, behaviour of, when combining with diazobenzene (MATTHES), 1890, A., 385.
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- Di- β -naphthylamine**, *tetrabromo-* (RIS), 1888, A., 57.
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- β -Dinaphthylcarbamic chloride** (KYM), 1890, A., 633, 993; (KUN and LANDAU), 1890, A., 634, 1311.
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- u*-Di- β -naphthylcarbamide**, *thio-* (PASCHKOWETZKY), 1892, A., 166.
- Dinaphthylcarbamides**, α - and β -*tetra-nitro-* (PERKIN), 1892, T., 467.
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- β -Dinaphthylcarbazole** (RIS), 1886, A., 1036.
- α -Dinaphthyl diketodihydro-*p*-diazine** (ADENIUS), 1890, A., 269.
- α -Dinaphthyl- $\alpha\gamma$ -diketopiperazine** (BISCHOFF and NASIVOGEL), 1889, A., 1015; (BISCHOFF and HAUSDORFER), 1890, A., 1309.
- β -Dinaphthyl- $\alpha\gamma$ -diketopiperazine** (BISCHOFF and HAUSDORFER), 1890, A., 1309; 1892, A., 1342.
- β -Dinaphthyl- $\alpha\gamma$ -dimethyl- $\beta\delta$ -diketopiperazine** (BISCHOFF and HAUSDORFER), 1892, A., 1337.
- as*-Di- β -naphthyl diphenylcarbamide**, *thio-* (PASCHKOWETZKY), 1892, A., 165.
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- s*-Dinaphthylhydrazine** (*hydrazo-naphthalene*) (NIETZKI and GOLL), 1886, A., 245.
- Dinaphthyl hydrochloride diimido-** (JULIUS), 1887, A., 56.
- picrates* (WEGSCHEIDER), 1891, A., 216.
- $\alpha\beta$ -Dinaphthyl sulphide** (KRAFFT), 1890, A., 1312.
- disulphide*, *diamido-* ($\text{NH}_2\text{S}=1:3'$) (EKBM), 1891, A., 573.
- disulphide*, *diamido-* ($\text{NH}_2\text{S}=1:4'$) (EKBM), 1890, A., 994.
- $\alpha\alpha$ -Dinaphthyl sulphoxide** (EKSTRAND), 1885, A., 171; (KRAFFT), 1890, A., 1311.
- Dinaphthylene** (NIETZKI and GOLL), 1886, A., 245.
- Di- β -naphthyl ketone oxidesulphonic acid**, barium salt of (CLAUS and RUPPEL), 1890, A., 510.
- Dinaphthylmethane** (CLAU and RUPPEL), 1890, A., 511.
- β -Dinaphthylmethylamine** (RIS), 1888, A., 57.
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- Dinaphthylmethylcyanidine** (PINNEE), 1892, A., 1110.
- Dinaphthyl naphthalene** (ROUX), 1888, A., 1305.
- α -Dinaphthylparabanic acid** (EVLERS), 1888, A., 602.
- β -Dinaphthylphenylcarbamide** (GENHARDT), 1885, A., 364; (KUN and LANDAU), 1890, A., 634.
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- α -Dinaphthylphenylcarbinol** (ELBS and STEINKE), 1886, A., 947; (ELBS), 1887, A., 943.

- β -Dinaphthyl-*p*-phenylenediamine* and its derivatives (RUEFF), 1889, A., 894.
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- isoDinaphthylquinone* (STAUD and SMITH), 1885, T., 104.
- α -Dinaphthylpiperazine* (BISCHOFF), 1889, A., 1011.
- β -Dinaphthylpiperazine* (BISCHOFF and HUNDORFER), 1890, A., 1333.
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- Dinaphthylthiocarbamide*, bases from (EVERS), 1888, A., 600.
- β -Dinaphthylthio-carbazide and -carbazone* (FREUND), 1892, A., 513.
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- Dioximes*, action of phenylhydrazine on (POLONOWSKY), 1888, A., 366.
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- Dioxydehydronicotine, dibromo-* (PINNER), 1892, A., 1497.
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- Dioxydibenzylidene/dithioxamide* (EPHRAIM), 1891, A., 831.
- Dioxydiethylaniline* (HOLZMANN), 1887, A., 723.
- Dioxydimethylaniline* (MERZ and WEITH), 1886, A., 792.
- Dioxydimethylantraquinone (dimethylantrapharic acid)* and its acetyl-derivative (V. KOSTANECKI and NIEMENOWSKI), 1885, A., 1240.
- Dioxydiphenylene, perchloro-* (HUGOUNENQ), 1889, A., 1150.
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- Dioxymethylene-2'-methylquinoline* (HABER), 1891, A., 705.
- Dioxymethylenephénylgyoxylic acid* (CIAMICIAN and SILBER), 1890, A., 966.
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- Dioxymethylenephényloximidoacetic acid* (GARELLI), 1892, A., 327.
- Dioxyphenazine* (NIEZKI and HASTERLIK), 1891, A., 944.
- Dioxyphenylmethylpyrazoleoxime (isomethylpyrazolopyridine)* (KNORR), 1884, A., 1379.
- Dioxyretistene* (BAMBERGER), 1884, A., 1040; (EKSTRAND), 1884, A., 1011.
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- Dioxythiodiphenylimide* (BERNTHSEN), 1886, A., 55.
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- Dipalmitylcarbinylacetate** (KIPPING), 1890, T., 987.
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- Diphellandrene** (PESCI), 1886, A., 1038.
- Diphenacyl** (*diphenylethylene diketone*; *succinophenone*) (CLAUS and WERNER), 1887, A., 527; (AUGER), 1888, A., 952; (KAPF and PAAL), 1889, A., 147.
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- γ-Diphenoxypropylamine** (LOHMANN), 1891, A., 1167.
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dithio- (HOLZMANN), 1888, A., 1080.
- Diphenylaminesaloxan** (PELLIZZARI), 1888, A., 682.
- Diphenylamine-*o*-carboxylic acid**, *di*-nitro-, and its derivatives (JOURDAN), 1885, A., 988.
- Diphenylamine-*p*-carboxylic acid**, *m*-nitro- (SCHÖPFF), 1890, A., 374.
- Diphenylamine-*o*-*p*-disulphonic acid** (FISCHER), 1892, A., 333.
- Diphenylaminofumaride** (PIUTTI), 1886, A., 621.
- Diphenylaminophthalein** and its derivatives (PIUTTI), 1884, A., 451; 1885, A., 783.
- "**Diphenyl- ψ -amphiphenacylnitrile**" and its nitroso- and nitro-derivatives (MOHLER), 1885, A., 360.
- Diphenylisocamylsemithiocarbazide** (PHILIPS), 1889, A., 1159.
- Diphenylanthracene dibromide** and dihydride (LINEBARGER), 1892, A., 720.
- Diphenylarsine trichloride** (MICHAELIS and SCHULTE), 1883, A., 187.
- Diphenylasparagine** (PIUTTI), 1886, A., 621.
- Diphenylazo-**. See under Azo-.
- Diphenylbenzylamidine** (NOLTING and WEINGARTNER; KÜHN), 1885, A., 979.
- α -Diphenyl- β -benzoylpropionic acid** (JAPP and KLINGEMANN), 1890, T., 681.
 action of heat on (JAPP and KLINGEMANN), 1890, T., 685.
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- Diphenylbenzoylpropionic acid**, ethylamide and methylamide of (JAPP and KLINGEMANN), 1890, T., 706, 703.
- Diphenylbenzylacetic acid**, and nitrile of (NEURE), 1889, A., 597.
- Diphenylbenzylidenemaleide** and its derivatives (GABRIEL and COHN), 1892, A., 179; (COHN), 1892, A., 483.
- Diphenylisobenzylidenemaleide** (COHN), 1892, A., 486.
- Diphenylbenzylidenemaleimidine** (COHN), 1892, A., 484.
 nitro- (COHN), 1892, A., 487.
- Diphenylisobenzylidenemaleimidine** (COHN), 1892, A., 486.
- Diphenylbenzylidenemaleinethylinide** (COHN), 1892, A., 484.
- 1:3-Diphenylbenzylidene-5-pyrazolone** (KNORR and KLOTZ), 1887, A., 1121.

- Diphenylbenzylmaleide and its derivatives (COHN), 1892, A., 484.
- Diphenylbenzyl-maleimidine and -maleinethylinidine (COHN), 1892, A., 484, 485.
- Diphenylbenzylphosphine chloride (DORKE), 1888, A., 832.
- oxide and dichloride (MICHAELIS and LA COSTE), 1885, A., 1215.
- oxide, *trinitro*- (DORKE), 1888, A., 833.
- Diphenylbenzylsemithiocarbazide (PHILIPS), 1890, A., 1159.
- Diphenylbenzylthiourea (WERNER), 1892, P., 97.
- Diphenylbismuthine bromide (MICHAELIS and MARQUARDT), 1889, A., 1061.
- Diphenylbromobenzylidenemaleide (COHN), 1892, A., 483.
- Diphenylbromodinitroresorcinol (JACKSON and WARREN), 1891, A., 1026.
- Diphenylbromotoluinoxaline (HARTMANN), 1890, A., 976.
- Diphenyl-*butane* and -*butylene* (FREUND and IMMERWAHR), 1890, A., 1409, 1408.
- Diphenylbutylenediamine (COLSON), 1888, A., 139.
- Diphenylisobutylglyoxaline (JAPP and WYNN), 1886, T., 467.
- Diphenylisobutylsemithiocarbazide (PHILIPS), 1889, A., 1159.
- Diphenylbutyric acid (JANSEN), 1889, A., 596.
- Diphenylbutyrolactone (AUGER), 1888, A., 952.
- Diphenylbutyronitrile (JANSEN), 1889, A., 596.
- Diphenylcarbamie acid, thio-, derivatives of (FRAENKEL), 1885, A., 1130.
- Diphenylcarbamie chloride, thio- (PASCHKEWETZKY), 1892, A., 161.
- s*-Diphenylcarbamide (*carbanilide*) (HENSCHEL), 1883, A., 1107.
- action of sulphuric acid on (HILFSCHEL), 1884, A., 1016.
- s*-Diphenylcarbamide, *m*-amido- (LEUCKART), 1890, A., 760.
- bromo- (GATTERMANN and CANZLER), 1892, A., 833.
- m*-nitro- (LEUCKART), 1890, A., 760.
- p*-nitro- (GOLDSCHMIDT and MOLINARI), 1888, A., 1285; (LEUCKART), 1890, A., 760.
- m*-dinitro- (LOSANITSCH), 1883, A., 583.
- Diphenylcarbamide, *p*-bromo- (GOLDSCHMIDT and MOLINARI), 1888, A., 1284.
- Diphenylcarbamide, *m*- and *p*-chloro- (GOLDSCHMIDT and BARDACH), 1892, A., 979.
- as*-Diphenylcarbamide, thio- (PASCHKEWETZKY), 1892, A., 164.
- Diphenylcarbamidedicarboxylic acid (TRAUBE), 1883, A., 194.
- Diphenylcarbazide (SKINNER and RUEHMANN), 1888, T., 551; A., 274.
- properties of (FISCHER), 1889, A., 1164.
- Diphenylcarbazone (HELLER), 1891, A., 1212.
- Diphenylcarbinol. See Benzhydrol.
- p*-Diphenylcarboxyanilide (LEUCKART), 1890, A., 759.
- o*-Diphenylcarboxylic acid, condensation of (GRAEBE and AUBIN), 1887, A., 589.
- Diphenylcarboxylic acid, *di*bromo- [m.p. 212°] (HOLM), 1883, A., 922.
- Diphenylcarboxylic acids, *m*- and *p*- and salts of (BARTH and SCHREDER), 1883, A., 468.
- Diphenylcarboxylic acids, *di*bromo- [m.p. 204° and 232°] (CARNELLEY and THOMSON), 1885, T., 589; P., 88.
- Diphenyltrichlorethane and its homologues (ELBS and FORSTER), 1889, A., 713.
- Diphenyldichlorodiketo-*p*-diazine (ABENTUS), 1890, A., 526.
- Diphenylchloroformamide, compounds from (LELLMANN and BENZ), 1891, A., 1214.
- Diphenylchloromethyl dimethylcarbinol (WILLGERODT and GENIESER), 1888, A., 811.
- $\alpha\beta$ -Diphenylcinchonic acid (PFIRZINGER), 1889, A., 413.
- Diphenylcrotonolactone (KLINGEMANN), 1892, A., 1002.
- Diphenylcyanamide (WERNER), 1892, P., 96.
- Diphenylcyanethyldiene (CHAUTARD), 1888, A., 810.
- Diphenylcyanine chloride (KLASON; v. MEYER), 1887, A., 363.
- Diphenyltricyanocarboxylic acid (KRAFFT and KOENIG), 1890, A., 1252.
- Diphenylcyanotriazole (BLADIN), 1889, A., 702.
- Diphenyl-*o*-isocyanuric acid (v. HOFMANN), 1886, A., 234.
- Diphenyldiaceto-*o*-tolylenediamine (BISPRZYCKI and CYBULSKI), 1891, A., 694.
- Diphenyldiacetylene (HOLLEMAN), 1888, A., 261.

- Diphenyldiisomamyltetrazone (PHILIP-), 1889, A., 1159.
- 2,6-Diphenyl-*m*-diazine, 4-amido-formation of (SCHWARZE), 1890, A., 1159.
- s*-Diphenyldibenzylsuccinonitrile (CHALANEY and KNOEVENAGLE), 1892, A., 619.
- Diphenyldibutynyl ketone, *p*-nitro- (EINHORN and GILHEINBERG), 1890, A., 162.
- Diphenyldisubutyltetrazone (PHILIP-), 1889, A., 1159.
- Diphenyldisobutylglyoxime (AUWERS and MEYER), 1888, A., 595.
- Diphenyl-*o*-*p*-dicarboxylic acid (RLILAND), 1890, A., 167.
- Diphenyl-*m*-dicarboxylic acid, *n*-ulio- (STOLLE), 1888, A., 700.
- Diphenyl- α -diethyl- β -diketopiperazines (NASTVOGEL, 1889, A., 1013; 1890, A., 1160.
- Diphenyldiethylene (REBUFFA), 1885, A., 1137, and its derivatives REBUFFA, 1891, A., 76.
- Diphenyldiethyl-oxamide and -thiocarbamide (NEUBER), 1886, A., 874, 873.
- s*-Di-*p*-phenyldiethylthiocarbamide (MAINZER), 1883, A., 1106.
- p*-Diphenyldiguanide (EMICH), 1891, A., 1180.
- Diphenyldihydrazimethylene (CURTIUS and THUN), 1891, A., 1357.
- Diphenyldihydrazine (ARHEIDT), 1887, A., 958.
- 2:3-Diphenyl-5:6-dihydropyrazine (MASON), 1887, A., 493; 1889, T., 98.
- $\alpha\alpha$ -Diphenyldihydropyridine- γ -carboxylic acid (PAAL and SIRASFER), 1888, A., 62.
- 3':4'-Diphenyldihydroquinoxaline (FISCHER), 1891, A., 747.
- Diphenyldihydroxylamine (FISCHER and HEPP), 1887, A., 1115.
- Diphenyldiisindole, and its salts (MOHLAU), 1883, A., 342, identity of, with 3'-phenylindole (MOHLAU), 1888, A., 483, azo-colouring substances from (MOHLAU), 1883, A., 342.
- Diphenyldiisindoleazo-. See under Azo-.
- Diphenyldiisindolesulphanilic acid (MOHLAU), 1883, A., 343.
- Diphenyldiketodihydropyrazine (ABENIUS), 1890, A., 268.
- Diphenyldiketopiperazine and its derivatives (BISCHOFF), 1888, A., 726; (ABENIUS), 1888, A., 854.
- Diphenyl- $\alpha\beta$ -diketopiperazine (BISCHOFF and NASTVOGEL), 1889, A., 1015; 1890, A., 1161.
- Diphenyl- $\alpha\gamma$ -diketopiperazine (HATSDORFER, 1889, A., 1013; (BISCHOFF and HATSDORFER), 1890, A., 1332, homologues of (NASTVOGEL, 1889, A., 1012.
- Diphenyl- $\alpha\delta$ -diketopiperazine (HATSDORFER), 1889, A., 1014; (BISCHOFF and HATSDORFER), 1890, A., 1333.
- Diphenyl- $\alpha\gamma$ -diketopiperazine- $\delta\delta$ -homocarboxylic acid BISCHOFF and NASTVOGEL, 1890, A., 1162.
- Diphenyldiketopyrazine (ABENIUS), 1890, A., 526.
- Diphenyldimethyl (ADAMS), 1888, A., 959.
- Diphenyldimethylaldine (SCHMIDT), 1890, A., 373.
- Diphenyldimethyl/*l*/amidomethylene-*o*-phenylenediamine (MOORE), 1890, A., 246.
- Diphenyldimethylazimethylene (CURTIUS and RAUERBERG), 1891, A., 1359.
- Diphenyl- $\alpha\gamma$ -dimethyl- $\beta\delta$ -diketopiperazine (NASTVOGEL), 1889, A., 1012.
- Diphenyl- $\alpha\gamma$ -dimethyl- $\beta\delta$ -diketopiperazines, isomerism of (NASTVOGEL), 1890, A., 1160.
- Diphenyldimethylenediamine (PRAETSI), 1885, A., 782.
- Diphenyldimethylindole (ARHEIDT), 1887, A., 958.
- Diphenyldimethylmalonamide (FREUND), 1884, A., 729.
- Diphenyldimethylphosphonium iodide (DORKE), 1888, A., 833.
- Diphenyldimethylpyrazoloneacetic acid (PELLIZZARI), 1890, A., 645.
- s*-Diphenyldimethylsuccinonitrile (CHALANEY and KNOEVENAGLE), 1892, A., 619.
- 2:3-Diphenyl-1:4-dimethyltetrahydropyrazine (MASON), 1889, T., 104.
- Diphenyldimethylthiocarbazine (STAEHEL), 1890, A., 1260.
- Diphenyldinitrosacyl (HOLLIMAN), 1889, A., 50.
- Diphenyldiphenylenedicarbamide (KÜHN), 1885, A., 979.
- 3-Diphenyl-4:5-diphenyl-1-methylpyrrolone (KLINGMANN), 1891, A., 736.
- Diphenyldipropylguanidine (FRANKEN), 1884, A., 1008.
- Diphenyldiisopropyltetrazone (PHILIP-), 1889, A., 1159.
- Diphenyldipyridazine (CIAMICIAN and ZANETTI), 1891, A., 1502.

- Diphenyldisulphine**, *m*-*nitro*- (EKDOM), 1891, A., 567.
- Diphenyldisulphonic acid** and its derivatives (LIMPRICHT), 1891, A., 930.
- amido- (LIMPRICHT), 1891, A., 930.
- bromamido- (LIMPRICHT), 1891, A., 929.
- iso*Diphenylene, new reaction of (JULIUS), 1884, A., 1181.
- Diphenylene ketone** (CARNELLEY and DUNN), 1888, P., 53; A., 1095.
- bromo- (CLAUS and ERLER), 1887, A., 269.
- di*bromo- (HODGKINSON and MATTHEWS), 1883, T., 165; (HOLM), 1883, A., 921; (CLAUS and ERLER), 1887, A., 269.
- Diphenylene ketone oxide**. See Xanthone.
- Diphenylene ketoxime** (SPIEGLER), 1884, A., 1182; (WEGERHOFF), 1889, A., 1067.
- Diphenyleneazone** (TÄUBER), 1892, A., 184, 482.
- mono*- and *di*-oxides of (TÄUBER), 1892, A., 183.
- di*amido- (TÄUBER), 1892, A., 184.
- Diphenylenebisazo-dimethylaniline**, - β -naphthol and -resorcinol (REULAND), 1890, A., 167.
- Diphenylenediacetonehydrazine** (ARHEIDT), 1887, A., 958.
- p*-**Diphenylenediamine** (TÄUBER), 1892, A., 481.
- Diphenylenediethylidene**, synthesis of, from benzene and ethylenic chloride (ANGELIS and ANSCHÜTZ), 1884, A., 753.
- Diphenylenedihydrazepyruvic acid** (ARHEIDT), 1887, A., 958.
- Diphenylenedimethyl *disulphide*** (OBERMEYER), 1888, A., 125.
- Diphenylenedisemicarbazide** (ARHEIDT), 1887, A., 958.
- Diphenylenediurethane** (SNAPE), 1886, T., 256; P., 158.
- Diphenylenehydrazone** (TÄUBER), 1892, A., 184.
- Diphenylenehydroxydihydroanthraquinone** (LIEBERMANN and BERGAMI), 1890, A., 515.
- Diphenyleneketonecarboxylamide** (WEGERHOFF), 1888, A., 1201.
- Diphenyleneketonecarboxylic acid** (BAMBERGER and HOOKER), 1885, A., 906, 1070; (GRAEBE and AUBIN), 1887, A., 589.
- o*-**Diphenyleneketonecarboxylic acid** (GRAEBE and AUBIN), 1889, A., 145.
- Diphenyleneketonecarboxylic acid** (BAMBERGER and HOOKER), 1885, A., 906.
- Diphenyleneketoximecarboxylic acid** (BAMBERGER and HOOKER), 1885, A., 906.
- Diphenylenemethane sulphide and sulphone** (GRAEBE and SCHULTZ), 1891, A., 1059.
- Diphenylenenaphthaquinoxalinesulphonic acid**, sodium salt of (WITT), 1886, A., 889.
- Diphenylene-*m*-phenylenediamine**, amido- (FISCHER and HEPP), 1890, A., 614.
- p*-**Diphenylene- α -tetramethyldipyrrole** (PAAL and SCHNEIDER), 1887, A., 273.
- Diphenylenetoluinoxaline** (HINBERG), 1884, A., 1053.
- Diphenylenic *diisocyanate*** (SNAPE), 1886, T., 255.
- oxide (GALEWSKY), 1891, A., 1234.
- synthesis of (TÄUBER and HALBERSTADT), 1892, A., 1470.
- di*amido- (GALEWSKY), 1891, A., 1234.
- s*-**Diphenylethane (*dibenzyl*)** (ANSCHÜTZ), 1883, A., 807.
- formation of, from benzylic bromide (GLADSTONE and TRIBE), 1885, T., 453.
- formation of, from ethylenic *dichloride* and benzene in presence of aluminium chloride (GREENE), 1885, A., 58.
- molecular refraction and dispersion of, in solution (GLADSTONE), 1891, T., 591.
- derivatives of (HEIMANN and WIERNIK), 1887, A., 673.
- Diphenylethane, *di-o*-chloro*di*nitrosyl**- (BEHREND and NISSEN), 1892, A., 1200.
- p*-*di*nitro-, preparation of (ROSER), 1887, A., 836.
- o*-*di*nitrocyano- (BAMBERGER), 1887, A., 131.
- di-p*-nitro/*di*nitrosyl- (BEHREND and KÖNIG), 1891, A., 1032.
- as*-**Diphenylethane**, synthesis of, from benzene and ethylenic chloride (ANGELIS and ANSCHÜTZ), 1884, A., 753; (DA SILVA), 1884, A., 1356.
- action of nitric acid on (ANSCHÜTZ and ROMIG), 1886, A., 1033.
- nitration-products of (ANSCHÜTZ and ROMIG), 1885, A., 800.
- mono*- and *di*-nitro- (ANSCHÜTZ and ROMIG), 1885, A., 768.
- s*-**Diphenylethane-*o*-carboxylic acid** (GABRIEL), 1885, A., 1230.

- s*-Diphenylethane-*o*-dicarboxylic acid (WISLIENTS), 1885, A., 58; (DOBREFF), 1887, A., 958; (EPHRAÏM), 1890, A., 1143.
- Diphenylethylsulphone phenylic sulphide (LAVEN), 1890, A., 988.
- Diphenylethylenureide (PINNER), 1891, A., 60.
- 2':4'-Diphenyletho- $\alpha\beta$ -dihydronaphthoquinaxaline (FISCHER and BUSCH), 1891, A., 1514.
- 1':3'-Diphenyletho-naphthazonium bromide, hydroxide and nitrate (FISCHER and BUSCH), 1891, A., 1110.
- Diphenylethyl α -xylil ketone (WEGE), 1892, A., 338.
- β -Diphenylethylamine (FREUND and IMMEERWAHR), 1890, A., 1407.
- s*-Diphenylethylamine (LEUCKART and JANSSEN), 1889, A., 883.
- Diphenylethylamine, action of diazo-*p*-nitrobenzene on (MELDOLA), 1884, T., 111.
- Diphenylethylcarbamide (GEBHARDT), 1884, A., 1321.
- s*-Diphenylethylene. See Stilbene.
- Diphenylethylene diketone (*diphenacyl*; *succinophenone*) (CLATS and WERNER), 1887, A., 827; (AUGER), 1888, A., 952; (KAPF and PAAL), 1889, A., 147.
- Diphenylethyleneallylidenediamine (MASON), 1887, A., 493.
- Diphenylethylenediamine, action of carbonyl chloride on (HANSEN), 1887, A., 577.
- action of succinic acid and anhydride on (BISCHOFF and NASTVOGEL), 1890, A., 1164.
- α -Diphenylethylenedihydrazine (BURCHARD and MICHAELIS), 1889, A., 138; (BURCHARD), 1890, A., 250.
- Diphenylethylenedihydrazine, *di*-thionyl- (MICHAELIS and RUHL), 1892, A., 1324.
- Diphenylethylenedihydrazinedisuccinic acid (BURCHARD), 1890, A., 250.
- Diphenylethylenepropylidenedihydrazine (BURCHARD), 1890, A., 251.
- Diphenylethylsulphone (OTTO and DAMKOHLER), 1885, A., 261.
- action of potash and of ammonia on (OTTO and DAMKOHLER), 1885, A., 537.
- Diphenylethylenedithiocarbamide (LELLMANN and WÜRTNER), 1885, A., 978.
- Diphenylethylenic glycol mononitrite (ANSCHUTZ and ROMIG), 1886, A., 1034.
- Diphenylethyl cyanide (MEYER), 1888, A., 693.
- Diphenylethyl *tricyanide* (KRAFFT and V. HANSEN), 1889, A., 697.
- hydrogen phosphate (LÖSSEN and KOHLER), 1891, A., 1015.
- Diphenylethylidene ether (BIGINELLI), 1891, A., 296.
- Diphenylethylidenediamine, cyano- (CHAUTARD), 1888, A., 810.
- Diphenylethylidenedisulphone (ESCALES and BARMANN), 1887, A., 123.
- Diphenylethylidenehydrazine (v. MILLER and FLOCHL), 1892, A., 1196.
- Diphenylethylsemithiocarbazide (PHILIPS), 1889, A., 1158.
- Diphenylethylthiocarbamide (GEBHARDT), 1884, A., 1321.
- action of aniline on (GEBHARDT), 1885, A., 383.
- Diphenylethyltriazole (BLADIN), 1890, A., 271.
- Diphenylethylurazine (PINNER), 1888, A., 1084.
- Diphenylformamidine (WALLACH), 1883, A., 49; (PINNER), 1883, A., 731.
- m*-nitro- (COMSTOCK and WHEELER), 1892, A., 707.
- m*-dinitro- (COMSTOCK and WHEELER), 1892, A., 706.
- Diphenylfumaramic acid (PITTI), 1886, A., 792.
- Diphenylfuran (DODGE), 1891, A., 1237.
- 2:5-Diphenylfurfuran (KAPF and PAAL), 1888, A., 839; 1889, A., 148; (PERKIN and SCHLOESSER), 1889, P., 162; 1890, T., 944, 953.
- reduction of (PERKIN and SCHLOESSER), 1890, T., 955.
- tetrabromo- (PERKIN and SCHLOESSER), 1890, T., 954.
- 2:5-Diphenylfurfuran-3-carboxylic acid (KAPF and PAAL), 1888, A., 839; (PERKIN and SCHLOESSER), 1890, T., 951.
- action of bromine on (PERKIN and SCHLOESSER), 1890, T., 953.
- 2:5-Diphenylfurfuran-3:4-dicarboxylic acid (PERKIN and CALMAN), 1886, T., 168; (PERKIN and SCHLOESSER), 1890, T., 951.
- preparation of (PERKIN), 1885, T., 271.
- s*-Diphenylglutaric acid (ZELINSKY), 1890, A., 132; (ZELINSKY and FELDMANN), 1890, A., 334.
- s*-Diphenylglyceryl ether (RÜSSING), 1886, A., 345.
- Diphenylglycollic acid. See Benzilic acid.
- Diphenylglyoxaline (JAPP), 1887, T., 557; P., 34.

- α -Diphenylglyoxime** (GOLDSCHMIDT and MEYER), 1883, A., 1120.
- β -Diphenylglyoxime** (GOLDSCHMIDT), 1884, A., 62.
- Diphenylglyoxime peroxide** (SCHOLL), 1891, A., 316.
- Diphenylguanidine** (SCHÖNE), 1886, A., 338.
dicyanide, bromo- and nitro- (HIRSCH), 1888, A., 947.
- Diphenylhexylmethane and its derivatives** (KRAFFT), 1887, A., 253.
- Diphenylhomofluorindine** (FISCHER and HEPP), 1890, A., 1444.
- Diphenylhydantoin** (BISCHOFF and HAUSDORFER), 1892, A., 1334.
- as*-Diphenylhydrazine, derivatives of** (STAHEL), 1890, A., 1239.
cyanuric chloride (FRIES), 1886, T., 742.
- s*-Diphenylhydrazine** (*hydrazobenzene*), action of benzaldehyde on (CLÈVE), 1886, A., 545.
 action of dibasic organic acids on (V. BANDROWSKI), 1884, A., 1015.
 action of ethyldichloramine on (PIERSON and HEUMANN), 1883, A., 915.
 action of ethylic acetoacetate on (V. PERGER), 1886, A., 898; (MÜLLER), 1886, A., 899.
 intramolecular change in (JACOBSON and FISCHER), 1892, A., 840.
 derivatives of (STERN; V. BANDROWSKI), 1884, A., 1015.
 halogen derivatives of (JANOVSKY and ERB), 1887, A., 478.
- s*-Diphenylhydrazine, diamido-** (*hydrazonilline*), preparation of (GRAEFF), 1885, A., 1127.
bromo- [m.p. 63°] (JANOVSKY and ERB), 1886, A., 1024.
p-*bromo-* [m.p. 115°] (JANOVSKY and ERB), 1887, A., 479.
di-*bromo-* (JANOVSKY and ERB), 1887, A., 479.
p-*chloro-* (HEFMANN and MENTHA), 1886, A., 875.
m-*chloro-o*-*nitro-* (WILLGERODT and FERKO), 1888, A., 830.
p-*iodo-* (NÖLTING and WERNER), 1891, A., 211.
 α -dinitro- (WILLGERODT and FERKO), 1888, A., 829; (WILLGERODT and HERMANN), 1889, A., 1160; 1890, A., 1259.
trinitro- (FISCHER), 1890, A., 40.
 conversion of, into nitrosodinitrazobenzene (FREUND), 1889, A., 977.
- Diphenylhydrazineacetonylacetone** (PAAL), 1885, A., 505.
- s*-Diphenylhydrazine-*o*-carboxylic acid** (PAAL), 1892, A., 67.
p-*bromo-*, and *p*-*chloro-* (PAAL), 1892, A., 68.
- s*-Diphenylhydrazinedi-*m*-carboxylic acid** (*m*-*hydrazobenzonic acid*), acids obtained by heating, with stannous chloride (KUSSEROW), 1890, A., 778.
- s*-Diphenylhydrazinedi-*o*-carboxylic acid** (*o*-*hydrazobenzonic acid*) (HOMOLKA), 1884, A., 1342.
- s*-Diphenylhydrazinedisulphonamide** (LIMPRICHT and MEYER), 1892, A., 973.
- s*-Diphenylhydrazinedisulphonic acid** (RODATZ), 1883, A., 479; (LIMPRICHT), 1889, A., 399; 1890, A., 987.
- s*-Diphenylhydrazinedisulphonic acid, action of nitrous acid on** (LIMPRICHT), 1885, A., 1216.
- Diphenylhydrazinepyruvic acid, synthesis of** (FISCHER and HESS), 1884, A., 1181.
- s*-Diphenylhydrazine*di*thiodisulphonic acid and its barium salt** (BAUER), 1885, A., 1139.
- s*-Diphenylhydrazine*di*thiodisulphonic acids** (LIMPRICHT), 1885, A., 985.
- p*-Diphenylhydrazohexamethylene** (V. BAER and NOYES), 1889, A., 1148.
- Diphenylhydrazobenzylidenesulphonic acid, sodium salt of** (KAFKA), 1891, A., 720.
- Diphenylhydrazonenitro-*o*-pianic acid** (BISTRZYCKI), 1888, A., 1209.
- Diphenylhydrazonepianic acid** (BISTRZYCKI), 1888, A., 1209; (TUST), 1892, A., 1210.
- Diphenylhydrazonephthalaldehydic acid** (ALLENDOFF), 1891, A., 1370.
- Diphenylic carbonate, action of aniline, *o*- and *p*-toluidines, naphthylamine, and of diphenylcarbamide on** (ECKENROTH), 1885, A., 786.
 conversion of, into salicylic acid (HENTSCHEL), 1883, A., 589.
- dodecenchloride** (SCHÜPPHAUS), 1885, A., 52.
- dicyanide** (PINNERT), 1891, A., 60.
- o*-*p*-dicyanide** (KUTLAND), 1890, A., 167.
- $\Delta^{1,2}$ -dihydroterephthalate** (V. BAER and HERB), 1890, A., 1132.
- $\Delta^{2,3}$ -*cis*-trans dihydroterephthalate** (V. BAER and HERB), 1890, A., 1131.
- diphenylenedicarbamate** (SNAPPE), 1886, T., 256.
- hydrogen cyanide** (KRAFFT and KOENIG), 1890, A., 1252.

- Diphenylic lead oxide** (POLIS), 1888, A., 283.
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 sebacamide (GEHRING, 1887, A., 22.
 disulphide (CLAY), 1885, A., 69.
Diphenylimide, imidothio-, and its salts (BERNTSEN), 1885, A., 259.
Diphenylimidomethylthiazoline (TRUMANN), 1889, A., 415.
 "Diphenylimidonaphthol" (*β -naphthaquinonediimidol*) (MELDOLA), 1884, T., 157.
Diphenylimidophenylene (SEIFERT), 1890, A., 490.
Diphenylimidothiazoline (FISCHER and BUSCH), 1891, A., 1517.
Diphenylindole (FISCHER), 1886, A., 806; (PFULE), 1887, A., 956.
Diphenylene. See *iso*Benzidine.
Diphenylizindihydroxytartaric acid (ZIEGLER and LOCHER), 1887, A., 578.
m-nitro- (BISCHLER and BRODsky), 1890, A., 151.
Diphenylketazine (CURTIUS and RAUFERBERG), 1891, A., 1359.
Diphenylketopiperazine (BISCHOFF and NASTVOGL), 1889, A., 1009; 1890, A., 1160.
 β -Diphenyllactic acid and anhydride (WIESE), 1889, A., 253.
Diphenylmaleanil (ANSCHUTZ and BENDIX), 1891, A., 71.
Diphenylmaleic acid, action of soda on (DELISLE), 1892, A., 297.
Diphenylmaleic anhydride (ANSCHUTZ and BENDIX), 1891, A., 71; (GABRIEL and COHN), 1892, A., 178.
Diphenylmaleonitrile (CHALANEY and KNOEVENAGEL), 1892, A., 618.
Diphenylmethane (HODGKINSON and MATTHEWS), 1883, T., 164.
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Diphenylmethane, *m*-amido- (BECKER), 1883, A., 203.
p-amido- (BASLER), 1884, A., 310.
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p-diamido-, and its nitro-derivatives (GRAM), 1892, A., 618.
 tetramido-, and its compounds (STAEDEL), 1883, A., 991.
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m-nitro- (BECKER), 1888, A., 202.
o-nitro-, preparation of (GEIGY and KOENIGS), 1885, A., 1237.
Diphenylmethane, *p*-nitro- (BASLER), 1884, A., 310; MANN, 1889, A., 261.
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***p*-Diphenylmethanecarbamide** (MANN, 1889, A., 261.
Diphenylmethanedicarboxylic acid (GRAEBL and JULIARD), 1888, A., 156; (JULLARD, 1888, A., 708.
Diphenylmethanehydrazine (MANN), 1889, A., 261.
Diphenylmethanetricarboxylic acid (GRAEBE and JULIARD), 1888, A., 154; (JULLARD), 1888, A., 707.
Diphenylmethenylamidine (SEIFERT), 1885, A., 767.
Diphenylmethenylazidine (PINNER), 1884, A., 1323.
Diphenylmethenyldiamine (TODIAS), 1883, A., 326.
Diphenylmethylamine, molecular refraction and dispersion of (GLADSTONE), 1891, T., 296.
Diphenylmethylamine, diamidothio-, and its derivatives (BERNTSEN), 1885, A., 259.
p-nitroso- (FISCHER and HEPP), 1890, A., 614.
 thio- (HULZMANN), 1888, A., 1080.
Diphenylmethylamineazylane (LIPPMANN and FLEISSNER), 1884, A., 180.
Diphenylmethylaminesulphone (BERNTSEN), 1884, A., 596.
Diphenylmethylcarbamide (GEHARDT), 1884, A., 1321.
Diphenylmethylcarbinol (ADAM), 1888, A., 959.
 nitro- (ANSCHUTZ and ROMIG), 1885, A., 768.
Diphenyl-*o*-, -*m*- and -*p*-methylcarbinylamines (GOLDSCHMIDT and STOCKER), 1891, A., 1480, 1479.
Diphenyl-*m*-methylcarbinylcarbamide (*homobenzhydrylcarbamide*) (GOLDSCHMIDT and STOCKER), 1891, A., 1480.
Diphenyl-*p*-methylcarbinyl-phenylcarbamide and -thiocarbamide (GOLDSCHMIDT and STOCKER), 1891, A., 1480.
Diphenylmethylcinnamaldazimethylene (CURTIUS and RAUFERBERG), 1891, A., 1360.
2-6-Diphenyl-5-methyl-*m*-diazine, 4-amido- (v. MEYER), 1889, A., 578; (SCHWARZE), 1890, A., 1159.
Diphenylmethylidihydropyrazine (KNORR and BLANK), 1885, A., 556.

- 4':5'-Diphenyl-3'-methyl-dihydroquin-oxaline (FISCHER and BUSCH), 1891, A., 1515.
- Diphenylmethylene diketone. See Dibenzoylmethane.
- Diphenylmethylenedianiline (V. MILLER and PLOCH), 1892, A., 1195.
- Diphenylmethylene-benzaldazine and -cinnamaldazine (CURTIUS and RAUTERBERG), 1891, A., 1359.
- Diphenylmethylene-hydrazine and -tetrazone (CURTIUS and RAUTERBERG), 1891, A., 1358, 1359.
- Diphenylmethylenedithioglycollic acid (BONGARTZ), 1888, A., 479.
- Diphenylmethylenethiylene disulphide (FASBENDER), 1888, A., 805.
- Diphenylmethylethophenazonium hydroxide (KEHRMANN and MINSINGER), 1892, A., 1108.
- Diphenylmethylglyoxaline (JAPP and WYNNE), 1886, T., 465; P., 201; (JAPP), 1887, T., 557; P., 34.
- Diphenylmethyl *tricyanide* (KRAFFT and V. HANSEN), 1889, A., 696. formation of (EITNER and KRAFFT), 1892, A., 1184. preparation of (KRAFFT and KOENIG), 1890, A., 1252.
- sulphide (OBERMEYER), 1888, A., 124.
- Diphenylmethylphthalide (V. HEMI-LIAN), 1884, A., 321.
- Diphenylmethylpyrazole and its deriva-tives (KNORR and BLANK), 1885, A., 556; (FISCHER and BULOW), 1885, A., 1237.
- o*- and *p*-nitro- (KNORR and JÜDICKE), 1885, A., 1247, 1248.
- 1:3-Diphenyl-5-methylpyrazole, *tri*-nitro- (KNORR and LAUBMANN), 1889, A., 409.
- 1:5-Diphenyl-3-methylpyrazole (KNORR), 1887, A., 678.
- Diphenylmethylisopyrazole and its salts (KNORR and BLANK), 1885, A., 810.
- Diphenylmethylpyrazolecarboxylic acid (KNORR and BLANK), 1885, A., 556.
- p*-amido- (KNORR and JÜDICKE), 1885, A., 1248.
- o*- and *p*-nitro- (KNORR and JÜDICKE), 1885, A., 1247, 1248.
- Diphenylmethylisopyrazolecarboxylic acid and its salts (KNORR and BLANK), 1885, A., 810.
- Diphenylmethylpyrazolecarboxylic anhydride, *o*-amido- (KNORR and JÜDICKE), 1885, A., 1248.
- 1:5-Diphenyl-3-methylpyrazoline (KNORR), 1887, A., 678.
- 1:3-Diphenyl-2-methylpyrazolone (KNORR and KLORZ), 1887, A., 1121.
- 1:5-Diphenyl-2-methylpyrrole (LE-DERER and PAAL), 1886, A., 75.
- 1:5-Diphenyl-2-methylpyrrole-3-carb-oxylic acid and its ethyl salt (LE-DERER and PAAL), 1886, A., 75.
- 3':4'-Diphenylmethylquinoxaline (HINSBERG), 1884, A., 1053.
- Diphenylmethylsulphonophenyl sul-phide (LAVES), 1890, A., 988.
- $\alpha\beta$ -Diphenyl- μ -methylthiazole (HU-BACHER), 1891, A., 222.
- Diphenylmethylthiocarbamide (GEB-HARDT), 1884, A., 1320. action of ammonia and of *o*-toluidine on (GEBHARDT), 1885, A., 383.
- Diphenylmethyltriazole (BLADIN), 1889, A., 138.
- Diphenylnaphthaleneazammonium hydroxide and its salts (ZINCKE and LAWSON), 1887, A., 731.
- Diphenylnaphthaquinoxaline (LAW-SON), 1885, A., 1239.
- Diphenyl- $\alpha\beta$ -naphthatriazine (MEL-DOLA), 1890, T., 331. and its derivatives (MELDOLA and FORSTER), 1891, T., 681.
- Diphenylnaphthylenecarbamide (BAM-BERGER and SCHIEFFELIN), 1889, A., 892.
- Diphenylnaphthylenediamine [m.p. 168°] (ANNAHEIM), 1887, A., 839.
- Diphenylnaphthylene-*p*-diamine (FISCHER and HEPP), 1890, A., 911.
- Diphenyl-*o*-nitrobenzylcarbamide (PAAL and BODEWIG), 1891, A., 944.
- Diphenyl-*l*-nitroethane (GABRIEL), 1885, A., 1229.
- Diphenyl-*l*-nitromethane (SCHOLL), 1891, A., 315.
- Diphenyl-*m*- and -*p*-nitrophenylcarb-amides (LELLMANN and BONHOFFER), 1887, A., 936.
- Diphenylnitrosamine, *o*-nitro- (FIS-CHER), 1892, A., 332.
- Diphenyl-*l*-nitrosohydrazine (AR-HEIDT), 1887, A., 958.
- Diphenylnitrosoketopiperazine (BIN-CHOFF and NASTVOGEL), 1890, A., 1161.
- Diphenyl-*r*-nitrosopropane (DE NEUF-VILLE and V. FECHMANN), 1891, A., 319.
- Diphenyl-*m*-nitro-*p*-tolylcarbamide (LELLMANN and BONHOFFER), 1887, A., 936.
- Diphenyloxalylguanidine, nitro- (HIRSCH), 1888, A., 947.
- Diphenyloxamide. See Oxanilide.

- Diphenyloxycyanidine (PINNER), 1891, A., 59.
- Diphenylparabanic acid (V. STOJENTIN), 1885, A., 1195, 1196.
- nitro- (HINSCH), 1888, A., 947.
- di*nitro- (V. STOJENTIN), 1885, A., 1195.
- Diphenyl-*p*-phenylene diketone (NÖLTING and KOHN), 1885, A., 389; 1886, A., 349.
- Diphenyl-*m*- and -*p*-phenylenediamines and their derivatives (CALM), 1884, A., 591, 592.
- Diphenyl-*m*-phenylenediamine, *p*-nitroso- (FISCHER and HEPP), 1890, A., 613.
- Diphenylphenylenedicarbamide (KÜHN), 1885, A., 979.
- m*-Diphenylphenylenedisulphone, action of potash on (OTTO and ROSSING), 1887, A., 372.
- Diphenylphenylpropionic acid (LIEBERMANN and HARTMANN), 1892, A., 1228.
- Diphenylphenylene/*l*thiocarbamides, *o*- and *m*- (LELLMANN and WURHNER), 1885, A., 977.
- Diphenylphosphinic acid, *di*amido- (DÖRKEN), 1888, A., 834.
- di*nitro- (DÖRKEN), 1888, A., 833.
- Diphenylphosphonium salts (DÖRKEN), 1888, A., 833.
- Diphenylphosphoric acid, *di*nitro- (RAPF), 1884, A., 1337.
- Diphenylphosphorous acid (NOACK), 1883, A., 737.
- Diphenylphosphoryl chloride (NOACK), 1883, A., 735; (ANSCHUTZ and EMERY), 1890, A., 34.
- trichloride and thioclchloride (ANSCHUTZ and EMERY), 1890, A., 35.
- Diphenylphthalamic acid, and its salts (PIUTTI), 1884, A., 451.
- Diphenylphthalidicarboxylic acid (v. HEMILIAN), 1887, A., 267.
- Diphenylphthaloylic acid (KAISER), 1890, A., 897.
- Diphenylphthalylasparagine (PIUTTI), 1886, A., 621.
- Diphenylpiperazine (BISCHOFF and TRAPENSONZIANZ), 1890, A., 1332.
- preparation of (LELLMANN and SCHLEICH), 1889, A., 904.
- and its homologues, preparation of (BISCHOFF), 1889, A., 1010.
- Diphenylpiperazine, *p*-*di*amido-, formation of colouring matters from (LELLMANN and SCHLEICH), 1889, A., 904.
- p*-*di*nitro- (SCHMIDT and WICHMANN), 1892, A., 210.
- 2:3-Diphenylpiperazines, α - and β -, and their derivatives (MASON), 1889, T., 102, 105.
- $\alpha\alpha$ -Diphenylpiperidine and $\alpha\alpha$ -diphenylpiperidine- γ -carboxylic acid (PAAL and STRASSER), 1888, A., 63.
- $\alpha\beta$ -Diphenylpropane (WISPEK and ZUBER), 1883, A., 977; (KRAEMER, SPILKER and EBERHARDT), 1891, A., 207.
- Diphenylpropionic acid and its derivatives (BÖTTCHER), 1884, A., 55.
- β -Diphenylpropionic acid, preparation of (HENDERSON), 1891, T., 731; P., 123; (LIEBERMANN and HARTMANN), 1892, A., 819, 1228.
- Diphenylpropylamine (FREUND and REMSEL), 1890, A., 1122.
- Diphenylpropyl-carbamide, -oxamide and -phenylthiocarbamide (FREUND and REMSEL), 1890, A., 1122.
- Diphenylpropylic alcohol (FREUND and REMSEL), 1890, A., 1123; PERKIN and STEINHOSE, 1891, T., 1009.
- Diphenylpropylpropionitrile (ROSSO-LYMOE), 1889, A., 862.
- Diphenylisopropylsemithiocarbazide (PHILIPS), 1889, A., 1159.
- 2:3-Diphenylpyrazine (MASON), 1889, T., 99.
- di*nitro- (MASON), 1889, T., 101.
- 3:6-Diphenylpyrazine (*isobutyl* *amphi*-*phenylbutirile*) (FRIEDLANDER and MÄHLI), 1883, A., 918; (MOHLER), 1885, A., 560.
- molecular weight of (THRADWELL and MEYER), 1883, A., 665.
- 1:3-Diphenylpyrazole (KNORR and LAUBMANN), 1889, A., 410.
- Diphenylpyrazolecarboxylic acid (BEYER and CLAUSEN), 1887, A., 944.
- Diphenylpyrazoledicarboxylic acid (KNORR and LAUBMANN), 1889, A., 409.
- 1:5-Diphenylpyrazoline (LAUBMANN), 1888, A., 726.
- 1:3-Diphenylpyrazolone and its derivatives (KNORR and KLOTZ), 1887, A., 1121.
- Diphenylpyrazoloneazobenzene (KNORR and KLOTZ), 1887, A., 1121.
- 2:6-Diphenylpyridine (PAAL and STRASSER), 1888, A., 63; (DOEBNER and KUNTZE), 1889, A., 1212.
- 2:6-Diphenylpyridine-4-carboxylic acid (PAAL and STRASSER), 1888, A., 62.
- $\alpha\alpha$ -Diphenylpyridinetriacarboxylic acid (DOEBNER and KUNTZE), 1889, A., 112.
- 2:6-Diphenylpyridone and 2:6 diphenylpyridone-3-carboxylic acid (FEIST), 1891, A., 458.

- 2:6-Diphenylpyrone and 2:6 diphenylpyronecarboxylic acid (FEIST), 1891, A., 458.
- 2:5-Diphenylpyrrole (BAUMANN), 1887, A., 736; (KAPF and PAAL), 1889, A., 149.
- 2:5-Diphenylpyrrole-3-carboxylic acid (KAPF and PAAL), 1888, A., 840; 1889, A., 149.
- Diphenyl-pyrrolidone and -pyrrolone (KLINGEMANN), 1892, A., 1003.
- Diphenylpyrrolylrotolactone (ANGELI), 1890, A., 1000.
- α -Diphenyl- β -pyrrolylpropionic acid (ANGELI), 1890, A., 1000.
- μ -Diphenylquinol (MÜLLER and v. PERLMANN), 1889, A., 1171.
- Diphenylquinol, *di*-, *tri*- and *tetra*-nitro- (NITZKI and SCHUNDELEN), 1892, A., 310.
- 2:1-Diphenylquinoline (BEYER), 1887, A., 549.
- $\alpha\beta$ -Diphenylquinoline (BUDDEBERG), 1890, A., 1142.
- Diphenylquinolylmethane and its derivatives (FISCHER and FRÄNKEL), 1886, A., 561; 1888, A., 56.
- p*-Diphenylquinone (MÜLLER and v. PERLMANN), 1889, A., 1171.
- Diphenylquinoxaline, *diamido*- (NITZKI and MÜLLER), 1889, A., 605.
- Diphenylquinoxaline-*m*-carboxylic acid (ZEHR), 1891, A., 303.
- Diphenylresorcinol, *tetra*-, *para*- and *hexa*-nitro- (NITZKI and SCHUNDELEN), 1892, A., 310.
- Diphenylrosamine (HEUMANN and REY), 1890, A., 158.
- $\alpha\mu$ -Diphenylselenazole (HOFMANN), 1889, A., 727.
- Diphenylselenocarbamide (STOLTE), 1887, A., 43.
- Diphenylselenone (CHABRIÉ), 1890, A., 34.
- Diphenylsemicarbazide (KÜHN), 1885, A., 261.
- Diphenylsemithiocarbazide, *p*-bromo-*o*-nitro-, and *m*-nitro- (BISCHLER and BRODSKY), 1890, A., 152, 151.
- Diphenylsemithiocarbazidecarboxylic acid (RODER), 1887, A., 150.
- Diphenylsilicon dichloride (POLIS), 1886, A., 619.
- Diphenyl-stibic acid and -stibine chloride (MICHAELIS and REESE), 1886, A., 885.
- Diphenylsuccinamic acid, and its salts (PIUTTI), 1885, A., 783.
- Diphenyl-succinanil and -succinanilic acid (ANSCHÜTZ and BENDIX), 1891, A., 72.
- Diphenylsuccinic acid, action of strong sulphuric acid on (ROSEN), 1888, A., 1301.
- cyano- (POPPE), 1890, A., 504.
- Diphenylsuccinic acid, preparation of (HENDERSON), 1891, T., 732; P., 123.
- Diphenylsuccinic acid (ANSCHÜTZ and BENDIX), 1891, A., 71.
- Diphenylsuccinic anhydrides (TILLMANN), 1890, A., 1135; (ANSCHÜTZ and BENDIX), 1891, A., 72.
- Diphenylsuccinimidine (BLOCHMANN), 1887, A., 931.
- Diphenylsuccinonitriles, stereoisomeric (CHALANEY and KNOEVENAGEL), 1892, A., 619.
- Diphenylsulphamic acid, amido- (SPIEGEL), 1885, A., 987.
- Diphenylsulphide-*o*-carboxylic acid (ZIEGLER), 1890, A., 1292; (GRAEBE and SCHULTESS), 1891, A., 1058.
- Diphenylsulphonamic acid, ammonium salt of (TRAUBE), 1891, A., 569.
- Diphenylsulphone (*benzenesulphone*; *sulphobenzide*) (OTTO), 1885, A., 535.
- decomposition of (OTTO), 1886, A., 1031.
- Diphenylsulphone, *diamido*- and its derivatives (LAUTH), 1892, A., 1093.
- o*-*N*-chloro- (FRIEDEL and CRAFTS), 1887, A., 1101.
- Diphenylsulphone mercaptan (R. and W. OTTO), 1888, A., 282.
- s*-Diphenylsulphoneacetone, synthesis of (OTTO), 1889, A., 1186.
- Diphenylsulphonebromopropane (STUFFER), 1890, A., 988.
- Diphenylsulphone-*o*-carboxylic acid (GRAEBE and SCHULTESS), 1891, A., 1058.
- Diphenylsulphonedimethylacetone (OTTO), 1886, A., 801.
- Diphenylsulphonedisulphonic acid and its derivatives (OTTO and ROSSING), 1887, A., 263.
- Diphenylsulphonemethane (FROMM), 1890, A., 56.
- Diphenylsulphonophenyl ether (OTTO and ROSSING), 1887, A., 372.
- s*-Diphenylsulphoneisopropyl alcohol (OTTO and ROSSING), 1890, A., 780.
- Diphenylsulphone-*m*-sulphonic acid (OTTO), 1886, A., 1031.
- $\alpha\beta$ -Diphenylsulphone- β -thiophenylpropane (AUTENRIETH), 1891, A., 1068.
- Diphenylsulphonethylamine (OTTO), 1890, A., 380.

- Diphenylsulphonethylic oxide (OTTO and DAMKOHLER), 1885, A., 263.
sulphide (OTTO and DAMKOHLER), 1885, A., 538.
- Diphenylsulphonethylmethylaniline (OTTO and DAMKOHLER), 1885, A., 538.
- Diphenylsulphonic acid, *p*-amido- (CAR-NELLEY and SCHLESSELMANN), 1886, T., 380; P., 184.
- Diphenylsulphoxide (COLBY and Mc LOUGHLIN), 1887, A., 371.
di-nitro- (COLBY and McLOUGHLIN), 1887, A., 372.
- Diphenyltartaric acid, and the hydro-bromide of the amide of (BURTON), 1884, A., 62.
- Diphenyltaurocarbamic anhydride (ANDREASCH), 1883, A., 661.
- Diphenyltetrahydrofuran (KAPF and PAUL), 1889, A., 148.
- Diphenyltetrahydrophenanthroline (SCHIFF and VANNI), 1890, A., 139.
- Diphenyltetrazine and methiodide of (RUHEMANN), 1889, T., 244, 245.
bromo-derivatives of (RUHEMANN), 1889, T., 246.
nitro- (RUHEMANN), 1890, T., 51.
- am*-Diphenylthiazole (HUBACHER), 1891, A., 221.
- Diphenylthiazolecarboxylthiamide (BLADIN), 1892, A., 638.
- Diphenylthienylmethane (LEVI), 1886, A., 787.
- s*-Diphenylthiocarbamide (*thiocarbami-dide*) (SCHIFF and VANNI), 1892, A., 600.
constitution of (GOLDSCHMIDT and MEISLER), 1890, A., 500.
melting point and crystalline form of (LOSANTZSCH), 1886, A., 876.
action of acetic acid on (CAIN and COHEN), 1891, T., 329.
action of acetic anhydride on (WERNER), 1891, T., 396.
action of allylic bromide on (WERNER), 1890, T., 303; P., 33.
action of benzylic chloride on (WERNER), 1890, T., 297; P., 33.
action of chloroacetone on (PAWLEW-SKI), 1888, A., 473.
action of ethoxalyl chloride on (v. STOEJNTIN), 1884, A., 1159.
action of silicon tetrabromide on (REYNOLDS), 1888, T., 857.
action of water on (CAIN and COHEN), 1891, T., 328.
compounds of, with metallic salts (RATHEKE), 1884, A., 1018.
- s*-Diphenylthiocarbamide, *m*- and *p*-amido- (LELLMANN and WURTHNER), 1885, A., 977.
mono- and *di*-nitro-, action of iodine on (LOSANTZSCH), 1886, A., 582.
- as*-Diphenylthiocarbamide (WERNER), 1892, P., 96; (PASCHKOWEIZKY), 1892, A., 164.
- Diphenylthiocarbazinic acid (STAEHEL), 1890, A., 1260.
- Diphenylthiocarbimide, *m*-*mono*- and *di*-nitro- (STEDEMANN), 1883, A., 801.
- Diphenylthiohydantoin (KOSSEL), 1892, A., 468.
- 2:5-Diphenylthiophen (KAPF and PAUL), 1889, A., 148.
- Diphenyltolenylamidine (GLOCKE), 1888, A., 1290.
- Diphenyl-*p*-toluylamide (LELLMANN and BONHOEFFER), 1887, A., 935.
- Diphenyl-*p*-tolylbiuret (PAWLEW-SKI), 1888, A., 474.
- Diphenyltolylcarbinol, *tri*amido-. See Rosaniline.
- Diphenyltolylcarbinol-*m*-carboxylic acid (v. HEMILIAN), 1884, A., 323.
- Diphenyl-*m*-tolylenediamine and its derivatives (ZEGA and BUCH), 1886, A., 873.
- Diphenyltolylenedicarbamide (KUHN), 1885, A., 979; (LEUCKART), 1890, A., 760.
- Diphenyl-*m*-tolylenethiocarbamide (BILLETER and STEINER), 1886, A., 234.
- Diphenyl-*p*-tolylene*lithio*carbamide (LELLMANN and WURTHNER), 1885, A., 977.
- Diphenyltolylene*dicarbamate* (SNAPE), 1886, T., 258.
- Diphenyl-*p*-tolylguanidine (HUHN), 1886, A., 1036.
- Diphenyl-*m*-tolylmethane (v. HEMILIAN), 1884, A., 322.
- Diphenyltolylmethane, *tri*amido-. See Leucaniline.
- Diphenyl-*p*-tolylmethanecarboxylic acid [m.p. 217°] (v. HEMILIAN), 1884, A., 322.
- Diphenyl-*p*-tolylmethanecarboxylic acid [m.p. 155°] (GRENLY), 1886, A., 1035.
- 3':4'-Diphenyl-1'-tolylmethyldihydro-quinoxaline (FISCHER), 1891, A., 748.
- 2'':3'':Diphenyl-4'':-tolyl-naphthadi-hydroquinoxaline (FISCHER), 1892, A., 1474.
- 2'':3'':Diphenyl-4'':-tolyl-naphtha-hydr-naphthazonium hydroxide (FISCHER), 1892, A., 1474.

- p*-Diphenyltolylphosphine and its derivatives (DORKIN), 1888, A., 833.
- 2:5-Diphenyl-*o*-tolylpyrrole (PAAL and BRAIKOFF), 1890, A., 263.
- 2:5-Diphenyl-*p*-tolylpyrrole (BAUMANN), 1887, A., 736.
- Diphenyl-*o*- and -*p*-tolylpyrrolecarboxylic acids (PAAL and BRAIKOFF), 1890, A., 263.
- Diphenyltriazenylamidoxime (BLADIN), 1889, A., 978.
- Diphenyltriazenyl-benzenyl- and -ethenyl-azoximes (BLADIN), 1889, A., 978.
- Diphenyl-triazole and -triazolecarboxylic acid (BLADIN), 1889, A., 703.
- Diphenyltricarboxylic acid (BAMBERGER and HOOKER), 1885, A., 906, 1070.
- Diphenyltrimethylene/*l*-thiocarbamide (LEHMANN and WUTHNER), 1885, A., 978.
- aa*-Diphenyltrimethylenic cyanide (ZELINSKY and FELDMANN), 1890, A., 384.
- Diphenylurazine (PINNER), 1888, A., 1084.
- Diphenylurethane, and its derivatives (HAGER), 1886, A., 59.
- Diphenylvinyl nitrite (ANSCHUTZ and ROMIG), 1886, A., 1034.
- Diphenyl-*o*-xylylenediamine (LESER), 1884, A., 1313.
- Diphenyl-*o*- and -*m*-xylylmethanes (v. HEMILIAN), 1887, A., 267, 266.
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- under reduced pressure, apparatus for maintaining a constant pressure during (PERKIN), 1888, T., 689; P., 74.
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- Distyrene and distyrenic acid** (ERDMANN), 1883, A., 474.
- Distyryl ketone** (*cinnamone*; *dibenzylideneacetone*) (CLAISEN and PONDER), 1884, A., 1166.
- p*-nitro- (V. BAEYER and BECKER), 1883, A., 1120.
- Distyryl vinyl diketone and its phenylhydrazine derivative** (DIEHL and EINHORN), 1885, A., 1221.
- di-o*-nitro- (DIEHL and EINHORN), 1885, A., 1222.
- Disuccinimidodihydroxamic acid** (GARNY), 1892, A., 138.
- o*-*p*-Disulphaminebenzoic acid (FAHLBERG and LIST), 1888, A., 367.
- Disulphamineisophthalic anhydride** (WISCHIN), 1891, A., 74.
- Disulphamine-*p*-toluic acid** (HOLMES), 1891, A., 1375.
- Disulphanilic acid**. See Anilinedisulphonic acid.
- Disulphones** (OTTO and DAMKÖHLER), 1885, A., 261, 537; (OTTO and CASANOVA), 1888, A., 255; (FROMM), 1888, A., 357; 1890, A., 55.
- formation of trisulphones from (LAVES), 1892, A., 613, 850.
- action of various substances on (OTTO and DAMKÖHLER), 1885, A., 537.
- Disulphonic acids** (LIMPRICHT), 1885, A., 1332.
- Diterebenthyl** (RENARD), 1888, A., 161.
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- Diterebenthylene** (RENARD), 1888, A., 721.
- Diterebenthylsulphonic acid** (RENARD), 1888, A., 162.
- Diterpene from urine** (LE NOBEL), 1885, A., 668.
- Diterpodilactones and -diterpolactonic acids**, α - and β - (FITTIG and LEVY), 1890, A., 873.
- Diterpoxylic acids**, α - and β -, salts of (FITTIG and LEVY), 1890, A., 873, 874.
- α -**Diterpylic acid** (FITTIG and LEVY), 1890, A., 874.
- Ditetrahydro- α -naphthaquinoline** (BAMBERGER and STETTENHEIMER), 1891, A., 1261.
- Di- α -tetrahydronaphthylcarbamide** (BAMBERGER and ALTHAUNSE), 1888, A., 960.
- Ditetrahydronaphthylcarbamide**, *di*-amido- (BAMBERGER and BAMMANN), 1889, A., 783.
- Ditetrahydro- β -naphthylcarbiny**-carbamide and -thiocarbamide (BAMBERGER and HELWIG), 1889, A., 1198.
- Di- β -tetrahydronaphthylthiocarbamide** (BAMBERGER and MÜLLER), 1888, A., 600.
- Ditetrahydronaphthyl-*l*-thiocarbamide** (BAMBERGER and BAMMANN), 1889, A., 783.
- Ditetramethylene ketone** (COLMAN and PERKIN), 1887, T., 236.
- Ditetramethylene diethylic and diphenylic glycols** (PERKIN and SINCLAIR), 1892, T., 58, 66.
- Dithienyl** (NAHNSEN), 1884, A., 1132; 1885, A., 51.
- per*bromo- (NAHNSEN), 1885, A., 51.
- Dithienyl ketone** (*β -thione*) and its hydrazide (GÄTTERMANN), 1886, A., 228.
- Dithienyl-tribrom-** and -trichloroethanes (PETER), 1884, A., 1001.
- Dithienyltrichlorethane**, *he*cabromo- (PETER), 1884, A., 1001.
- Dithienyl-*l*-ibrom-** and -*l*-chloroethylenes (PETER), 1884, A., 1001.
- Dithienylmethane** (MEYER), 1884, A., 586; (PETER), 1884, A., 1001.
- Dithienylsulphonic acid** (NAHNSEN), 1885, A., 51.
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- Dithionic acid**. See Sulphur.
- Dithymol** (MESSINGER and PICKERSGILL), 1890, A., 1403.
- Dithymylamine** (LLOYD), 1887, A., 721.
- Dithymylic carbonate** (BENDER), 1887, A., 38.
- Ditolane *he*cachloride** (WISLICENUS and BLANK), 1889, A., 262.
- Ditolaneazotide**. See Tetraphenylpyrazine.
- Ditolenylimidine** (PINNER), 1892, A., 1110.
- μ* -**Ditolilbenzil** (BANDROWSKI), 1889, A., 147.
- Ditoluamides**, *o*- and *p*- (KRAFFT and KARSTENS), 1892, A., 712.
- imido- (KRAFFT and KARSTENS), 1892, A., 712.
- Ditoluene**, *dichlorodioxonitroso-* (*bis-o-chloronitrosylbenzyl*) (BEHREND and NINGSSEN), 1892, A., 1200.
- di-p*-nitrodinitroso- (*bis-p-nitronitrosylbenzyl*) (BEHREND and KONIG), 1891, A., 1035.
- d*-nitroso- (BEHREND and KONIG), 1890, A., 1122.
- Ditoluidotoluquinone** (FISCHER and HEPP), 1890, A., 912; 1891, A., 1046.

- p*-Ditoluidotoluquinone-*p*-toluidide (FISCHER and HEPP), 1888, A., 473.
- Ditolyl, quinol and quinone of (BRUNNER), 1889, A., 996.
- d*-amido-. See Tolidine.
- m*:*m*-Ditolyl (STOLLE), 1888, A., 699; (PERRIER), 1892, A., 851; (LOEWENHERZ), 1892, A., 852.
- d*ichloro-, and *d*iodo- (STOLLE), 1888, A., 699, 700.
- o*:*m*-Ditolyl (SCHULTZ), 1884, A., 903.
- o*:*p*-Ditolyl, bromo-derivatives of (CARNELLEY and THOMSON), 1885, T., 590; P., 88.
- d*ibromo-, product of the oxidation of (CARNELLEY and THOMSON), 1885, T., 592; P., 88.
- o*-Ditolyl, *d*initro-, preparation of (TÄTBER and LOEWENHERZ), 1891, A., 1491.
- p*-Ditolyl ketone (ELBS), 1887, A., 940; (ERRERA), 1891, A., 1033.
- Ditolyl ketone, *d*-amido- and *d*-nitro- (LANGHE and ZUFALL), 1892, A., 1460.
- p*-Ditolyl ketoxime (GOLDSCHMIDT), 1890, A., 1412.
- Ditolyl/*d*-amido-*o*-diazothioles, *o*- and *p*-, and their derivatives (HECTOR), 1890, A., 527.
- Di-*p*-tolyl/*d*-amido-*o*-diazothiole cyanide (HECTOR), 1890, A., 527.
- nitroso- (HECTOR), 1890, A., 527.
- p*-Ditolyl/*d*-amidohydroxybenzene (MINONNI), 1891, A., 190.
- p*-Ditolylamidomethylene-*o*-phenylenediamine (MOORE), 1889, A., 953.
- Ditolylamine, condensation of, with benzaldehyde (FISCHER and SIEDER), 1891, A., 434.
- o*-amido-. See Tolyltolylenediamine.
- p*-Ditolylbenzylcarbamide (HAMMERICH), 1892, A., 1083.
- o*:*p*-Ditolylbiuret (KILN and HENSCHEL), 1888, A., 474.
- p*-Ditolylisobutylcarbamide (HAMMERICH), 1892, A., 1083.
- p*-Ditolylcarbamie chloride (HAMMERICH), 1892, A., 1083.
- m*-Ditolylcarbamide (GATTERMANN and CANTZLER), 1892, A., 832.
- o*-Ditolylcarbamide (MAUTHNER and SUIDA), 1886, A., 886; (BISCHOFF and HAUSDORFER), 1890, A., 1285.
- p*-Ditolylcarbazide (FELUND), 1892, A., 512.
- Ditolylcarbolactone (BISTRZYCKI and V. KONTANECKI), 1885, A., 1077.
- Ditolylchlorocarbimethylcarbinol (WILLGERODT and GENIESER), 1888, A., 811.
- p*-Ditolyleyanocarbamide diargentocyanide (HAMMERICH), 1892, A., 1084.
- Ditolylidiacetylenediamide, *d*ichloro- (BISCHOFF and NASTVOGEL), 1890, A., 1161.
- Ditolylidicarboxylic acid (LOEWENHERZ), 1892, A., 852.
- p*-Ditolyl- α -diethyl- β -diketopiperazines (BISCHOFF and MINZ), 1892, A., 1338.
- Ditolylidethylenediamine (MAUTHNER and SUIDA), 1886, A., 886.
- p*-Ditolylidiketodihydropyrazine (ABENIUS), 1890, A., 269.
- o*-Ditolylidiketopiperazine (BISCHOFF), 1888, A., 727; (ABENIUS and WILDMAN), 1888, A., 824.
- p*-Ditolylidiketopiperazine (BISCHOFF), 1888, A., 727; (CONRAD and LIMPAUB), 1888, A., 854.
- o*-Ditolyl- α - β -diketopiperazine (BISCHOFF and NASTVOGEL), 1889, A., 1015.
- p*-Ditolyl- α - β -diketopiperazine (BISCHOFF and NASTVOGEL), 1890, A., 1162.
- o*-Ditolyl- α -diketopiperazine (BISCHOFF and NASTVOGEL), 1889, A., 1011; (BISCHOFF and HAUSDORFER), 1890, A., 1285; 1892, A., 1334.
- p*-Ditolyl- α - β -diketopiperazine (BISCHOFF and HAUSDORFER), 1892, A., 1336.
- p*-Ditolyl- α -diketopiperazines (BISCHOFF and HAUSDORFER), 1890, A., 1281; 1892, A., 1337.
- Di-*p*-tolylidimethyl-*m*- and -*p*-phenylenediamines (HATSCHKE and ZEGA), 1886, A., 456, 457.
- Ditolylidiquinone (BRUNNER), 1889, A., 997.
- 5:5'-Ditolyl-4:4'-disulphonic acid (HELLE), 1892, A., 1466.
- 2-amido- (HELLE), 1892, A., 1467.
- Ditolylene-ethylenetetramine (GATTERMANN and HAGER), 1884, A., 1142.
- Ditolylene *d*isulphide (JACOBSON and NER), 1889, A., 772.
- p*-Ditolylene sulphoxide (PARKER), 1890, A., 1136.
- as*-Di-*p*-tolylethane (ANSCHÜTZ and ROMIG), 1885, A., 769.
- Ditolylethylenamidine (MABERY and KRAUSE), 1890, A., 371.
- p*-Ditolylethylene diketone (CLAUS and SCHLAPP), 1887, A., 827.
- Ditolylethylene ether (SCHREIBER), 1891, A., 553.
- o*-Ditolylethylenediamine (MAUTHNER and SUIDA), 1886, A., 886; (COLSON), 1887, A., 788; 1888, A., 684.

- Ditolyethylenediamines**, *o*- and *p*-, action of chloroacetic acid and oxalic acid on (BISCHOFF and NASTVOGEL), 1890, A., 1161, 1162.
- Di-*p*-tolylethylenesulphone** (OTTO and DAMKÖHLER), 1885, A., 538.
- Di-*o*-tolylethylsulphine** (PURGOTTI), 1890, A., 1420.
- Di-*p*-tolylethyltriazole** (BLADIN), 1890, A., 271.
- Ditolyformamidine**. See Ditoly-methenylamidine.
- p*-Ditolyglycerol** (LINDEMANN), 1891, A., 1199.
- Ditolyhydantoins**, *o*- and *p*- (BISCHOFF and HAUSDORFER), 1892, A., 1334, 1336.
- s*-Di-*p*-tolylhydrazine** (*p*-hydrazotoluene), formation of an *o*-amidotolylamine from (TÄUBER), 1892, A., 853.
- s*-Ditolyhydrazine**, diamido- and its salts (LIMPRICHT), 1885, A., 975; (GRANF), 1885, A., 1128.
- p*-brom-** (JANOVSKY and ERD), 1887, A., 479.
- s*-Ditolyhydrazinedisulphonamide** (HELLE), 1892, A., 1468.
- m*-Ditolylic dicyanide** (LÖEWENHERZ), 1892, A., 852.
- disulphide**, *p*-diamido- (JACOBSON and NEY), 1889, A., 771.
- o*-Ditolylic dihydrosulphide** (LETICKAU), 1890, A., 606.
- p*-Ditolylic carbonate** (BENDER), 1887, A., 38.
- dicyanate** (FRENZEL), 1889, A., 454.
- methylic triamide** (KRAFFT and KÖNIG), 1890, A., 1253.
- Ditolylic lead salts** (POLIS), 1889, A., 400.
- Ditolylic oxide** (*tolyl ether*), preparation of, from *p*-cresol (BUCH), 1885, A., 147.
- Ditolyline hydrochloride** (NÜLTING and WERNER), 1891, A., 211.
- p*-Ditolyliketopiperazine** (BISCHOFF and NASTVOGEL), 1889, A., 1010.
- m*-Ditolylmethenylamidine** (*ditolyformamidine*) and its derivatives (NIEMENTOWSKI and OBREMSKY), 1887, A., 935.
- Ditolylmethenylamidines**, *o*- and *p*- (SENTER), 1885, T., 764, 766.
- Ditolylmethylcyanidine** (PINNER), 1892, A., 1110.
- Di-*p*-tolylmethyltriazole** (BLADIN), 1890, A., 271.
- p*-Ditolylnaphthylenediamine** (ANNAHEIM), 1887, A., 339.
- p*-Ditolyk/isonitrosoethane** (HOLLEMAN), 1888, A., 456.
- Di-*p*-tolylloxamide** (BLADIN), 1884, A., 1141.
- Ditolyloxindole** (*toluisatin*) and its derivatives (V. BAUYER and LAZARUS), 1886, A., 154.
- Ditolyloxydiethylamine** (*imidotolyl cresyl ether*) (SCHREIBER), 1891, A., 552.
- Di-*o*-tolyl-*p*-phenylenediamine** (PHILIP), 1886, A., 942.
- Di-*p*-tolyl-*p*-phenylenediamine** (CALM), 1884, A., 593.
- Di-*p*-tolyl-*m*- and *p*-phenylenediamines** and their derivatives (HATSCHKE and ZEGA), 1886, A., 456, 457.
- Ditolyolphthalide** (VAN BERCHEM), 1885, A., 266.
- Ditolylpiperazine** [m.p. 154°] (BISCHOFF and NASTVOGEL), 1890, A., 1161.
- Ditolylpiperazines**, *o*- and *p*- (BISCHOFF), 1889, A., 1011; (BISCHOFF and HAUSDORFER), 1890, A., 1333.
- p*-Ditolyppyrroline** (HOLLEMAN), 1888, A., 455.
- Ditolysemithiocarbazides**, *o*- and *p*- (DIXON), 1892, T., 1017, 1018.
- o*-Ditolylsulphone** (PURGOTTI), 1890, A., 1420.
- p*-Ditolylsulphoneacetone** (R. and W. OTTO), 1888, A., 282.
- Ditolylsulphonepropyl ether** (OTTO), 1891, A., 1229.
- p*-Ditolylsulphonethylamine** and its derivatives (OTTO and DAMKÖHLER), 1885, A., 538.
- o*-Ditolyltetrazine** (RUHEMANN), 1890, T., 52.
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- p*-Ditolyltetrazine** (RUHEMANN), 1889, T., 217; 1890, T., 50.
- derivatives of** (RUHEMANN), 1890, T., 50.
- di*bromo-**, and **nitro-** (RUHEMANN), 1890, T., 51.
- o*-Ditolyltetrazinesulphonic acid** (RUHEMANN), 1890, T., 53.
- Ditolylthiocarbamide** (FISCHER and SIEDER), 1891, A., 431.
- Ditolylthiocarbamides**, *o*-, *m*- and *p*-, action of acetic anhydride on (WERNER), 1891, T., 402, 403.
- p*-Ditolylthiocarbamide**, *o*-nitro-, and *di*nitro- (STEUDEMANN), 1884, A., 308, 307.
- o*-Ditolylthio-carbazide and -carbazone** (FREUND), 1892, A., 513.
- p*-Ditolylthio-carbazide and -carbazone** (FREUND), 1892, A., 512.
- p*-Ditolylthiophen** (HOLLEMAN), 1888, A., 455.

- Di-*o*-tolyltolylenediamine, amido- (KUHLEWEIN), 1890, A., 371.
- p*-Ditriazobenzene and *m*-ditriazobenzoic acid (GRIESS), 1888, A., 826, 827.
- Ditriazole, derivatives of (BLADIN), 1890, A., 271.
- Diundecylenic acid (KRAFFT and BRUNNER), 1885, A., 373; (BRUNNER), 1886, A., 1011.
- Diuramidonitrobenzoic acid (GRIESS), 1885, A., 54.
- Diuretics (POPOFF), 1886, A., 485.
- Diuretin and analysis of (VULPIUS), 1890, A., 1475.
- Divalolactone (FITTIG and RASCH), 1890, A., 867; (FITTIG and HOFFKEN), 1892, A., 511.
- Divalonic acid (FITTIG and RASCH), 1890, A., 868.
- Disovaleric acid, thio- (LOVÉN), 1886, A., 333.
- Disovaleryl (KLINGER and SCHMITZ), 1891, A., 890.
- Dixanthone (v. KOSTANECKI and SEIDMANN), 1892, A., 1097.
- p*-Dixyl ketone (ELBS and OLBERG), 1886, A., 463; (ELBS), 1887, A., 941; (ERRERA), 1891, A., 1053.
- Dixyls, *o*-amido-, and colouring matters derived therefrom (NÖLTING and STRICKER), 1889, A., 135.
- m*-Dixyl/*o*-amido-*o*-diazothiole (HECTOR), 1890, A., 528.
- Di-*o*- and -*m*-xylalamines (MULLER), 1887, A., 663.
- Dixylbenzene (SENFF), 1884, A., 427.
- Dixylcarbamide (FRENTZEL), 1889, A., 241; (GATTERMANN and CANTZLER), 1892, A., 832.
- m*-Dixylcarbamide (BRÖMMEL), 1888, A., 1296.
- p*-Dixylcarbinol (ELBS and OLBERG), 1886, A., 463; (ELBS), 1887, A., 942.
- Dixyl/*o*-chloroethanes, *m*- and *p*- (ELBS and FORSTER), 1889, A., 713.
- m*-Dixyl/*o*-chloroethylene (ELBS and FORSTER), 1889, A., 713.
- p*-Dixyldiketodihydro-*p*-diazine (ABENIUS), 1890, A., 269.
- p*-Dixyldiketopiperazine (ABENIUS), 1888, A., 854.
- Dixyleneammonium salts (SCHOLTZ), 1891, A., 1353.
- Dixylenic disulphide (JACOBSON and NEY), 1889, A., 772.
- Dixylethane (ANSCHÜTZ and ROMIG), 1885, A., 769.
- Di-*m*-xylethylene diketone (CLAUS and WERNER), 1887, A., 827.
- Di-*p*-xylethylene diketone (CLAUS and MUTHFELD), 1887, A., 827.
- s*-Di-*m*-xyllylhydrazine (*m*-hydrazinyl) (NÖLTING and STRICKER), 1889, A., 136.
- Di-*o*-xyllylhydrazines, *s*- and *m*-, and di-*p*-xyllylhydrazine (NÖLTING and STRICKER), 1889, A., 135, 136.
- m*-Dixylthiocarbamide, action of acetic anhydride on (WERNER), 1891, T., 404.
- Dodecahydrotriphenylbenzene (MELLIN), 1890, A., 1423.
- Dodecanedicarboxylic acid (BROWN and WALKER), 1891, A., 1192.
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- Dodecylene, preparation of (KRAFFT), 1881, A., 571.
- Dodecylenic dibromide and dodecylidene (KRAFFT), 1884, A., 1108.
- Dodecyl palmitate (KRAFFT), 1884, A., 572.
- Dog, formation of fat from carbohydrates in the (MUNK), 1887, A., 288.
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- Dogs, digestion of starch by (ELLENBERGER and HOFMEISTER), 1892, A., 516.
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- Dog-fish, formation of urea in (v. SCHROEDER), 1890, A., 1451.
- Dolerite of Londorf (STENG), 1889, A., 110.
- Dolomite from the Central Urals (SAYTZEFF), 1889, A., 837.
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- Domeykite, from Zurickau (WEINBACH), 1883, A., 433.
- Doona zeylanica*, resin from (VALENTA), 1891, A., 1385.
- Dopplerite (MAYER), 1884, A., 265; (FRÜH), 1884, A., 923; (ALEXEEFF), 1892, A., 689.
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- Double bonds**, theory of (SKRAUP), 1891, A., 1320.
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- Doundaké or African quinine** (HÜCKEL and SCHLAGDENHAUFFEN), 1886, A., 267.
- Dracena australis*, carbohydrate from (EKSTRAND and JOHANSON), 1888, A., 246.
- Dracena cinnabari*, red resin from (DOBBIE and HENDERSON), 1885, A., 808.
- Dragon's blood**, so-called (DOBBIE and HENDERSON), 1884, A., 462.
- Dreelite**, identity of, with barytes (LACROIX), 1888, A., 33.
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- Driving-bands**, dressing for (ANON.), 1883, A., 640.
- Dropping-flask** (POOL), 1885, A., 930.
- Drops**, dependence of the size of, on external influences (TRAUBE), 1886, A., 844.
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- Dropsy**, nature of the effusion in (HALLIBURTON), 1890, A., 1173.
- Drosera rotundifolia*, experiments with (BÜSGEN), 1884, A., 917.
- Drosera Whittakeri*, colouring matters of (RENNIE), 1887, T., 371; P., 36.
- Drugs**, estimation of ash in (Kwasnick), 1890, A., 833.
- "Dry extract"** (JAY), 1885, A., 602.
- Drying**, apparatus for (MEYER), 1886, A., 417.
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- Drying oils**. See Oils.
- Duboisine** (LADENBURG and PETERSEN), 1887, A., 740.
- Dudgeonite** (HEDDLE), 1891, A., 275.
- Duelo**, Galician (V. MIKLUCHO-MACLAY), 1885, A., 224.
- Dufrenite** (*delorauite*) from Cornwall (KINCH, BUTLER and MIERS), 1887, A., 451; (KINCH), 1891, A., 274.
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- Dulcitol**, *isodulcitol* and derivatives. See Carbohydrates.
- isoDulcitolcarboxylic acid* and its lactone (FISCHER and TAFEL), 1888, A., 806.
- Dumortierite** from Harlem, New York, and Clip, Arizona (DILLER and WHITFIELD), 1889, A., 681.
- Duodecylacetylene** (KRAFFT and REUTER), 1892, A., 1164.
- Duodecylamine** and its salts (LITZT), 1886, A., 685.
- Duplothioacetone** and its derivatives (SPRING), 1884, A., 580; (AUTENRIETH), 1887, A., 463.
- Duplo/ithioacetone** (WILLGERODT), 1887, A., 1045.
- Durdenite** (DANA and WEILL), 1891, A., 154.
- 1:2:3:4-Durene**. See Prehnitene.
- Durene** (1:2:4:5-*tetramethylbenzene*) (SCHULZE), 1886, A., 232.
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- Durene**, bromo- (GISSMANN), 1883, A., 334.
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- 1:3:4:5-Durene** (1:3:4:5-*tetramethylbenzene*, *isodurene*) and its derivatives (JACOBSEN), 1883, A., 52; (ARMSTRONG and MILLER), 1884, A., 44.
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- Ethoximidefurfuran** (DOUGLAS), 1892, A., 831.
- Ethoxyacetal**, thio- (ATTENRIETH), 1891, A., 541.
- Ethoxyacetamide**, action of bromine on (v. HOFMANN), 1886, A., 45.
- 1:4-Ethoxyacetamidoquinoline** (VIL), 1892, A., 1104.
- Ethoxyacetonediphenylmercaptole**, thio- (ATTENRIETH), 1891, A., 568.
- Ethoxyacetone-ethylmercaptole**, thio- (ATTENRIETH), 1891, A., 567.
- o-Ethoxyacetophenone** (FILLIE and CLAUS), 1892, A., 959.
- Ethoxyacrylic acid** from *o*-dichloropropionic acid (OITTO), 1890, A., 957.
- 3-Ethoxy-4-amidophenol** WILL and PUKALL), 1887, A., 661.
- Ethoxyanisimide** (TAFFEL and ENOCH), 1890, A., 491.
- μ*-Ethoxyantipyrine** (SIOTZ), 1892, A., 1080.
 salicylate (AITSCHIL), 1892, A., 1082.
- Ethoxyanthracene** (GOLDMANN), 1888, A., 711.
- Ethoxyanthraquinone** (LIEBERMANN and JEFFINEK), 1888, A., 716.
- Ethoxyarecaine** (JAHNS), 1891, A., 95.
- Ethoxyazobenzene**. See under Azo.
- o-Ethoxybenzaldoxime** (LOW), 1892, A., 58.
- Ethoxybenzamide** [in p. 201] (GALLERMAN and ROSSOLIMO), 1890, A., 975.
- p*-Ethoxybenzamide** [in p. 206] (PINNER), 1891, A., 61.
- Ethoxybenzamide**, nitr- (THIEME), 1891, A., 916.
- 5-*p*-Ethoxybenzamidine-2-*p*-ethoxyphenyl-6-hydroxy-*m*-diazine-4-carboxylic acid** (PINNER), 1891, A., 64.
- Ethoxybenzamidine hydrochlorides**, *o*- and *p*- (PINNER), 1891, A., 64.
- Ethoxybenzene** (*phenyl ethyl ether*), *mono*-, *di*- and *tri*-bromo-*m*-amido- and bromo-*m*-nitro- (LINDLER), 1885, A., 775.
- m*-Ethoxybenzenesulphonic acid** (DE LITTLE and LAGAN), 1891, A., 310.
- Ethoxybenzenesulphonic acids**, *o*-, *m*-, and *p*-, and their derivatives (LAGAN), 1892, A., 1059.
- m*-Ethoxybenzenylamidoxime ethyl ether** (CLEMM), 1891, A., 699.
- μ*-Ethoxybenzenylamidoxime ethyl ether** (KRONL), 1891, A., 700.
- μ*-Ethoxybenzimidoeethyl ether hydrochloride** (PINNER), 1891, A., 64.
- Ethoxybenzoic acid**, biom-, and di-biom- (PFEIFFER), 1887, A., 487.
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- p*-Ethoxybenzoic anilide** (LEFKART and SCHMIDT), 1885, A., 1224.
- sulphinide** (REMSFN and PALMER), 1887, A., 144.
- o-Ethoxybenzonitrile** (PINNER), 1891, A., 63; (LOW), 1892, A., 56.

- p*-Ethoxybenzonitrile (PINNER), 1891, A., 64.
- Ethoxybenzonitriles, *o*- and *p*-, imidoethers from (PINNER), 1891, A., 63.
- nitro- (LOBBY DE BRUYN), 1885, A., 657.
- p*-Ethoxybenzophenone (*p*-benzoylphenol) (GATTERMANN, EHRHARDT and MAISCH), 1890, A., 964.
- o*-Ethoxybenzylamine (LOW), 1892, A., 58.
- Ethoxybenzyleneanthrone (BACH), 1890, A., 1425.
- Ethoxybromo-*m*-nitrobenzene (LINDER), 1885, A., 775.
- Ethoxybromotoluene (SCHREIBER), 1891, A., 552.
- γ -Ethoxybutyric acid (FITTIG and STROM), 1892, A., 813.
- Ethoxycaffeine (FISCHER), 1883, A., 355; (THOMS), 1890, A., 1166.
- p*-Ethoxycarbanil (KÜHLER), 1884, A., 1159.
- Ethoxychlorides, silicon derivatives of, action of phosphorus oxychloride on (STOKES), 1891, A., 1171.
- 6-Ethoxy-2:3:5-trichloro-4-amidopyridine (STOKES and v. PECHMANN), 1887, A., 157.
- Ethoxychloro-oxymethylpurin (FISCHER), 1884, A., 997.
- Ethoxycinchonic acid and its salts (KÖNIGS and KÖRNER), 1884, A., 84.
- Ethoxycinnoline (BUSCH and KLETT), 1892, A., 1494.
- p*-Ethoxycoumarilic acid (WILL and BECK), 1886, A., 882.
- Ethoxy-*o*-cresol (LIMPACH), 1892, A., 447.
- β -Ethoxycrotonic acid and its salts (FRIEDRICH), 1883, A., 968.
- Ethoxycyano-*p*-tolenylimide (GLOCK), 1888, A., 1291.
- Ethoxycymene (*cymyl ethyl ether*) (JESURUN), 1886, A., 696.
- iodo- (WILGERDIT and KORNBLUM), 1889, A., 697.
- Ethoxydihydroxyanthraquinone from anthrapurpurin (LIEBERMANN and JELLINEK), 1888, A., 717.
- Ethoxydimethyl- λ -amidoquinone, chlor- (KEHRMANN), 1891, A., 904.
- m*-Ethoxydimethylaniline, actions of (GRIMAUD), 1891, A., 693.
- Ethoxydimethylbenzidine (NÖLTING and WERNER), 1891, A., 213.
- Ethoxydimethyl-*m*-diazine (PINNER), 1891, A., 469.
- hydrobromide (PINNER), 1889, A., 1006.
- Ethoxydimethylpyridine (CANZONERI and SPICA), 1887, A., 499; (CONRAD and EPSTEIN), 1887, A., 501; (CONRAD and ECKHARDT), 1889, A., 520.
- Ethoxydiphenyl (HIRSCH), 1889, A., 510.
- λ -amido- (WEINBERG), 1888, A., 285.
- λ -nitro- (HIRSCH), 1889, A., 511.
- Ethoxydiphenylamine, λ -nitro- (SCHOFFE), 1889, A., 773.
- Ethoxydiphenyldiethyldisulphophenylenediamine (ATTENRIETH and HINSBERG), 1892, A., 161.
- m*-Ethoxydiphenyldisulphone-*o*-phenylenediamine (ATTENRIETH and HINSBERG), 1892, A., 161.
- p*-Ethoxydiphenylethylamine (PHILIP and CALM), 1885, A., 155.
- p*-Ethoxydiphenylquinoxaline (ATTENRIETH and HINSBERG), 1892, A., 732.
- Ethoxydiphenylsulphonic acid, λ -amido- (WEINBERG), 1888, A., 285; (FEER and MÜLLER), 1889, A., 258.
- Ethoxyethanetricarboxylic acid (BISCHOFF), 1883, A., 45.
- Ethoxyethylamine (LOSSEN), 1889, A., 1065.
- Ethoxyethylanthranil (GOLDMANN), 1888, A., 1202.
- Ethoxyethylbenzamide (LOSSEN), 1889, A., 1065.
- Ethoxyethylhydroquinoline ethiodide (KÖHN), 1886, T., 505.
- λ -nitro- (KÖHN), 1886, T., 509.
- Ethoxyethylhydroquinolium hydroxide (KÖHN), 1886, T., 505.
- Ethoxyethylphenol, nitroso- (KRAUS), 1892, A., 45.
- Ethoxyethyltheobromine (FISCHER), 1883, A., 357.
- Ethoxyhydrocotarnine methiodide (HECTOR), 1890, A., 531.
- p*-Ethoxyhydrocoumarilic acid (WILL and BECK), 1886, A., 882.
- Ethoxyhydroquinoline (FISCHER), 1883, A., 1116; (FISCHER and RENOUF), 1884, A., 1049.
- Ethoxymethenyl-amidophenol, -phenylenediamine and -tolenylenediamine (SANDMEYER), 1887, A., 135.
- Ethoxymethyl ethyl and propyl ketones (INDELT), 1886, A., 1011.
- p*-Ethoxymethylaniline (BISCHOFF and NANTVOGEL), 1889, A., 1012.
- Ethoxymethylbenzidine (NÖLTING and WERNER), 1891, A., 213.
- γ -Ethoxymethyl- ψ -carbostyryl (FRIEDLÄNDER and MÜLLER), 1887, A., 978.
- β -Ethoxymethylcrotonic acid (FRIEDRICH), 1883, A., 969.
- Ethoxymethyldiphenyl (ADAM), 1888, A., 959.

- α*-Ethoxymethylhydroquinoline (FISCHER), 1883, A., 1147.
- Ethoxymethylindole (ERLENBAUGH), 1892, A., 955.
- 3-Ethoxy-1-methyl-1-propylbenzene (*thymol ethyl ether*), 2-bromo- and 2:5-bromamido- (MAZZARA and VIGHI), 1890, A., 883.
- Ethoxy-4'-methylquinoline (KNORR), 1887, A., 159.
- α*-Ethoxynaphthalene, nitro-derivatives of (HEERMANN), 1891, A., 1379.
- β*-Ethoxynaphthalene (*naphthyl ethyl ether*), 1'-4'-dinitr- (ONUFROWICZ), 1891, A., 321.
- β*-Ethoxynaphthalene, 1-nitro-, and action of ammonia on (WITTKAMPF), 1884, A., 1036.
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- α*-nitroso- (v. ILINSKI), 1886, A., 474.
- 4-Ethoxynaphthaquinone, 3-chloro- (ZINCKE), 1888, A., 710.
- Ethoxynaphthazine (AUTENRIETH and HINSBERG), 1892, A., 733.
- Ethoxynaphthoic acid (GATTERMANN), 1888, A., 575.
- Ethoxynaphthyl phenyl ketone (*benzyl-α-ethoxynaphthalene*) (GATTERMANN, EHRLHART and MAISCH), 1890, A., 964.
- 1:4-Ethoxynaphthylamine (*amidonaphthyl ethyl ether*) and its derivatives (GRANDMOTHEIN and MICHEL), 1892, A., 862; (HEERMANN), 1892, A., 1097.
- Ethoxynaphthylamines and derivatives of (GAESS), 1891, A., 460.
- β*-Ethoxynaphthyl *mono*- and *di*-sulphides (ONUFROWICZ), 1891, A., 322.
- Ethoxynaphthylphenyl, *diamido*- (WEINBERG), 1888, A., 286.
- Ethoxy/*nitronaphthyl* sulphide (ONUFROWICZ), 1891, A., 321.
- Ethoxynitrotoluenesulphonic acid (LIMPRICHT), 1885, A., 1234.
- Ethoxynitro-*m*-xylenesulphonic acid and its salts (LIMPRICHT), 1885, A., 1234.
- p*-Ethoxyphenanthrazine (AUTENRIETH and HINSBERG), 1892, A., 733.
- Ethoxyphenylacetylene (FITTIG and CLAUS), 1892, A., 989.
- p*-Ethoxyphenylamidoacetic acid (BISCHOFF and NASTVOGEL), 1889, A., 1011.
- Ethoxyphenyl/*ibromonitroethane*, *m*-nitro- (FRIEDLÄNDER and LAZARUS), 1885, A., 1138.
- p*-Ethoxyphenylcarbamide (BERLINERBLAU), 1885, A., 148.
- o*-Ethoxyphenylchloracrylic acid (FITTIG and CLAUS), 1892, A., 989.
- Ethoxyphenylcyanamides, *o*- and *p*- (BERLINERBLAU), 1885, A., 148.
- 1-*p*-Ethoxyphenyl-2:3-dimethylpyrazolone (STOLZ), 1892, A., 1080.
- m*-Ethoxy-*o*-phenylenediamine (AUTENRIETH and HINSBERG), 1892, A., 160.
- Ethoxyphenylethyl-*p*-tolylamine (HATSCHEK and ZEGA), 1886, A., 456.
- p*-Ethoxyphenylhydrazine and its salts (STOLZ; ALTSCHUL), 1892, A., 1080, 1081.
- p*-Ethoxyphenylhydrazinesulphonic acid and its salts (ALTSCHUL), 1892, A., 1082, 1081.
- 2-*p*-Ethoxyphenyl-6-hydroxy-4:5-dimethyl-*m*-diazine and -4:5-methylethyl-*m*-diazine (PINNERT), 1891, A., 61.
- Ethoxyphenylic sulphide (TASSINARI), 1892, A., 1316.
- p*-Ethoxyphenylimidodiacetic acid, ethoxyanilide of (BISCHOFF and NASTVOGEL), 1889, A., 1012.
- 1-Ethoxyphenyl-3-methyl-5-pyrazolone (STOLZ), 1892, A., 1080.
- 5-Ethoxy-1-phenyl-3-methyl-6-pyridazone (ACH), 1890, A., 71.
- Ethoxyphenyl-naphthastilbazonium chloride, action of heat and of ammonia on (WITT and SCHMIDT), 1892, A., 1247.
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- Ethoxyphenyl-*o*-naphthylenediamine (WITT and SCHMIDT), 1892, A., 863.
- o*-Ethoxyphenylpropionic acid (FITTIG and CLAUS), 1892, A., 989.
- 3-Ethoxy-1-phenylpyrazoline, 4-bromo- (FISCHER and KNOEVENAGEL), 1887, A., 933.
- Ethoxyphenyl/*soquinoline* (GABRIEL), 1886, A., 631.
- Ethoxyphenylthiocarbamide (TIEHMANN), 1889, A., 1165; (VOLTMER), 1890, A., 1126; 1891, A., 558.
- Ethoxyphenylthiocarbamides, *o*- and *p*- (BERLINERBLAU), 1885, A., 148.
- Ethoxyphenyltoluene, *diamido*- (WEINBERG), 1888, A., 286.
- Ethoxyphenyltoluenesulphonic acid, *diamido*- (WEINBERG), 1888, A., 286.
- p*-Ethoxyphenyl-*p*-tolylethylamine (HATSCHEK and ZEGA), 1886, A., 457.
- p*-Ethoxyphenylurethane and some of its derivatives (KÜHLER), 1881, A., 1159.
- Ethoxypiaselenole (HINSBERG), 1890, A., 161.

- p*-Ethoxythiozyl chloride, decomposition of, on distillation (GEUTHER), 1884, A., 1256.
- 2-Ethoxytoluene (*tolyl ethyl ether*), preparation of (STAEDEL), 1883, A., 585.
- Ethoxytoluene, brom- and imido- (SCHREIBER), 1891, A., 552.
- 3-Ethoxytoluene, 4:6-dinitr- and 2:4:6-trinitr- (STAEDEL and KOLB), 1891, A., 187.
- 2-Ethoxytoluene-3.5 disulphonic acid (LIMPRICHT), 1885, A., 1233.
- 2-Ethoxytoluene-4-sulphonic acid (HEFFTER), 1884, A., 454.
- 4-Ethoxy-*m*-toluic acid (COOH:Me = 1:3) (BROWN), 1883, A., 471.
- Ethoxytriphenylmethane (ALLEN and KÖLLIKER), 1885, A., 655.
- 6-Ethoxy-*m*-xylene-4-sulphonic acid (LIMPRICHT), 1885, A., 1234.
- 4-Ethoxy-*m*-xylene-6-sulphonic acid (MOODY), 1891, P., 190.
- Ethyl allyl ether, action of hydrogen chloride and bromide on (KJNER), 1891, A., 164.
- Ethyl *tert*-amyl ether (KONDAKOFF), 1888, A., 802.
- Ethyl *iso*-amyl ether, α -chlor- (CLAUS and TRAINER), 1887, A., 231.
- amyl ketone (BEHAL), 1889, A., 227.
- bromopropyl ether (LESPIEAU), 1892, A., 420.
- butyl ether (HENRY), 1892, A., 28.
- isobutyl* ether (MEISSLER), 1887, A., 1088.
- β -butyl ketone (WISLICENTIS), 1883, A., 966.
- isobutyl* ketone and oxidation of (WAGNER), 1892, A., 36.
- isocrotyl* ether (SCHLESCHUKOFF), 1884, A., 1276.
- α -cyanethyl ketone (HANRIOT and BOUYEAULT), 1889, A., 842.
- α -cyanoisopropyl ketoxime (HANRIOT), 1892, A., 80.
- Ethyl ether, production of, by the action of "*Aspergillus glaucus*" on lemon juice (PHIPSON), 1884, A., 855.
- vinyl alcohol a constant constituent of (POLECK and THUMMEL), 1890, A., 118.
- refractive index and specific gravity of (ORDMANS), 1886, A., 437.
- electrical conductivity of mixtures of ethylic alcohol and (PFEIFFER), 1886, A., 115.
- heat of combustion of (STOHMANN), 1887, A., 425.
- thermal properties of (RAMSAY and YOUNG), 1887, A., 320.
- p*-Ethoxythiazthiole (AUFENRIETH and HINSBERG), 1892, A., 734.
- α -Ethoxypropanilide (BISCHOFF and HILSDORFER), 1892, A., 1337.
- α -Ethoxy-pyridine (v. PECHMANN and BALTZER), 1892, A., 209.
- α -(4-Ethoxy-pyridine, dichlor- (KOENIGS and HEIGY), 1884, A., 1369.
- β -Ethoxy-pyridine (FISCHER and RENOUE), 1884, A., 1370; (WEIDEL and BLAT), 1886, A., 77.
- 6-Ethoxy-pyridine, 2:3:5-trichloro-4-amido- (STOKES and v. PECHMANN), 1887, A., 157.
- 6-Ethoxy-2-pyridone-3:5-dicarboxylic acid (GUTHZEIT and DRESSSEL), 1889, A., 861.
- 3-Ethoxyquinol (WILL and PUKALL), 1887, A., 661.
- 1-Ethoxyquinoline (FISCHER), 1883, A., 1146; (FISCHER and RENOUE), 1884, A., 1049.
- 1-Ethoxyquinoline, derivatives of (VIS), 1892, A., 1105.
- 4-amido- (VIS), 1892, A., 1105.
- 1'-Ethoxyisoquinoline, 3'-chlor- (GABRIEL), 1887, A., 62.
- α -Ethoxy- β -quinolinecarboxylic acid (FRIEDLANDER and GOHRING), 1884, A., 1020.
- 3-Ethoxy-1:4-quinone (WILL and PUKALL), 1887, A., 661.
- 3-Ethoxyquinone, 6-chloro-2:5-diamido- (KEHRMANN), 1891, A., 904.
- p*-Ethoxyquinoxaline (AUFENRIETH and HINSBERG), 1892, A., 732.
- p*-Ethoxyquinoxalinedicarboxylic acid (AUFENRIETH and HINSBERG), 1892, A., 733.
- o*-Ethoxystyrene, α -brom- (FITTIG and CLAUS), 1892, A., 989.
- Ethoxystyrylhydantoin hydrobromide (PINNER and SPILKER), 1889, A., 706.
- Ethoxy- α -styrylpyridine (BUTLER), 1890, A., 1439.
- Ethoxysuccinic acid and its salts (HELL and KEMPEL), 1885, A., 755; (HEMPER), 1885, A., 756.
- Ethoxysuccinic acid and some of its salts (PURDIE), 1885, T., 866, 875.
- Ethoxyisosuccinic acid (TANATAR), 1891, A., 175; 1892, A., 1305.
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- α -Ethoxy-*o*-tetrahydronaphthalene (BAMBERGER and BORDR), 1890, A., 509.
- Ethoxytetrahydroquinoline, preparation of methyl- and ethyl-derivatives of (ANON.), 1883, A., 871.
- Ethoxytetramethylenecarboxylic acid (PERKIN and SINCLAIR), 1892, T., 46.

- Ethyl ether solutions**, dilute, cryoscopy of (PICKERING), 1892, A., 1045.
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- Ethyl ether, chlor-** (BACHMANN), 1883, A., 726.
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- Ethyl ether, tri- and tetra-chlor-** (GODEFROY), 1886, A., 607.
- Ethyl hexyl ketone** (WAGNER), 1892, A., 35.
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- Ethyl mercaptan**, action of diazobenzene-sulphonic acid and diazobenzene chloride on (STRADLER), 1884, A., 1328.
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- Ethyl isopropenyl ether** (FAWORSKY), 1889, A., 360.
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- Ethylacetanilide** (PICHEL), 1890, A., 758.
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p-nitr- (NÖLTING and COLLIN), 1884, A., 1013.
- Ethylacetimide**, and its hydrochloride (PINXER), 1883, A., 1090.
- Ethylacetone**. See Methyl propyl ketone.
- Ethylacetoneitranylde** (WELLER), 1883, A., 579.
- Ethylacetothienone** (SCHLEICHER), 1886, A., 539.
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- thylacetotoluidide, *m*-nitro- (NIEBENTOWSKI), 1887, A., 938.
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 ylacetylacetone (COMBES), 1887, A., 653.
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 α -Ethylamido- α -naphthaphenazine (ECKER), 1891, A., 470.
 α -Ethylamido- α -naphthalolazine (ECKER), 1891, A., 471.
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- Ethylie tetrachlorodiketoadipate** (HANTZSCH and ZECKENDORF), 1887, A., 727.
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- $\alpha\beta$ -dichloro-phenyl-, propyl- and -iso-propyl-carbamates (OTTO), 1891, A., 1374.
- β -chlorophthalate (GRAEBE and RÉE), 1886, T., 529.
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- β -dichloropropionate (FROMME and OTTO), 1887, A., 918.
- $\alpha\beta$ -dichloro-propyl- and -isopropyl-carbamates (OTTO), 1891, A., 1374.
- Ethylie dichloro-propyl- and -isopropyl-chlorocarbonates** (OTTO), 1891, A., 1374.
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- 2:5-dimethylpyrroline-3:4-dicarboxylate (KNORR), 1884, A., 1368; 1885, A., 248, 554, 994.
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- p*-Ethylisopropylphenol** (V. DER BECKE), 1891, A., 184.
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- 3'-Ethyl-2'-propylquinoline** (DOEBNER and V. MILLER), 1884, A., 1376; (KAHN), 1886, A., 262.
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- o*-Ethyl-*p*-isopropyltoluene** (CLAUS), 1892, A., 985.

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- β -Ethylpyridine**, properties and derivatives of (SROEHR), 1891, A., 579; 1892, A., 629.
- γ -Ethylpyridine** (OECHSNER DE CONINCK), 1884, A., 910; (LADENBURG), 1886, A., 159; 1887, A., 60.
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- o*-Hydroxybenzylcarbamide (GOLD-
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- 4-Hydroxy-6-benzyl-*m*-diazine-2-carb-
oxylic acid (PINNER), 1889, A., 1008.
- 6-Hydroxy-2-benzyl-4:5-dimethyl-*m*-
diazine (PINNER), 1889, A., 1008.
- 8-Hydroxy- γ -benzylhexoic acid, lactone
of (FITTIG and CHRIST), 1892, A.,
963.
- 2-Hydroxybenzyl-6-hydroxy-4-methyl-
m-diazine (PINNER), 1891, A., 63.
- 2-Hydroxybenzyl-6-hydroxy-4-methyl-
5-ethyl-*m*-diazine (PINNER), 1891, A.,
63.
- o*-Hydroxybenzyl alcohol. See Sali-
genin.
- p*-Hydroxybenzyl alcohol (BIEDE-
MANN), 1887, A., 38.
- cyanide (SALKOWSKI), 1884, A., 1175;
1889, A., 1173.
- Hydroxybenzylidene compounds (EM-
MERICH), 1888, A., 50.
- o*-Hydroxybenzylidenesamidobenzamide
(SCHIFF), 1884, A., 455.
- Hydroxybenzylidenesamidodimethyl-
anilines, *o*- and *p*- (NUTH), 1885, A.,
784.
- o*-Hydroxybenzylidene-*p*-amidodi-
phenylamine (HENCKE), 1890, A., 609.
- Hydroxybenzylidene-*o*- and -*p*-amido-
phenols (HAEGELE), 1892, A., 1451.
- o*-Hydroxybenzylidenesazine (CURTIUS
and JAY), 1889, A., 393.
- o*-Hydroxybenzylidenebisthioglycollic
acid (BONGARTZ), 1888, A., 478.
- p*-Hydroxybenzylidenediacetonamine
oxalate (ANFRIK), 1885, A., 503.
- Hydroxybenzylidenediphenylmaleide
(COHN), 1892, A., 483.
- Hydroxybenzylidenefenchylamine
(WALLACH and GRIEPENKERL), 1892,
A., 1239.
- m*-Hydroxybenzylidene-4'-methyl-
quinoline (HEYMANN and KOENIGS),
1888, A., 1114.
- p*-Hydroxybenzylidene-4'-methyl-
quinoline (HEYMANN and KOENIGS),
1888, A., 852.
- p*-Hydroxybenzylidene-2'-methyl-
quinoline (BULACH), 1889, A.,
528.
- p*-Hydroxybenzylidenepinylamine
(WALLACH and LORENTZ), 1892, A.,
997.
- 6-Hydroxy-2-benzyl-4-methyl-*m*-diaz-
ine (PINNER), 1889, A., 1007.
- 6-Hydroxy-2-benzyl-4-methyl-5-ethyl-
m-diazine (PINNER), 1889, A.,
1008.
- o*-Hydroxybenzyl-4'-methylquinoline
(HEYMANN and KOENIGS), 1888, A.,
852, 1113.
- p*-Hydroxybenzyl-4'-methylquinoline
(HEYMANN and KOENIGS), 1888, A.,
852.
- Hydroxybenzyl- β -naphthylamines and
- β -naphthyl nitrosamines, *o*- and *p*-
(EMMERICH), 1888, A., 51.
- o*-Hydroxybenzylphenylcarbamide
(GOLDSCHMIDT and ERNST), 1890, A.,
1412.
- Hydroxybenzylphosphinic acid (FOS-
SEK), 1886, A., 530.
- Hydroxybenzylphosphinous acid
(VILLE), 1890, A., 618.
- p*-Hydroxybenzylphthalimidine (HAF-
NER), 1889, A., 983; 1890, A.,
487.
- Hydroxybenzylphthalimidine, nitro-
(GABRIEL), 1885, A., 1230.
- Hydroxybenzylpyrotartaric acid
(*phenylhomotartaric acid*), calcium
salt of (PENFIELD), 1883, A., 473.
- p*-Hydroxybenzylsulphonic acid
(MOHR), 1884, A., 69.
- p*-Hydroxybenzylthiocarbimide (SAL-
KOWSKI), 1889, A., 1174.
- o*-Hydroxybenzyl-*p*-toluidine (EMMER-
ICH), 1888, A., 50.
- p*-Hydroxybenzyltoluidine (EMMER-
ICH), 1888, A., 51.
- Hydroxybenzyltrimethylenecarboxylic
acid (MARSHALL and PERKIN), 1891,
T., 884.
- γ -Hydroxy- β -benzylvaleric acid (ERD-
MANN), 1890, A., 377.
- Hydroxy- β -bromobenzylidenephényl-
hydrazine (RÖSSING), 1885, A.,
389.
- α -Hydroxybromocarmine (WILL and
LEYMANN), 1886, A., 252.
- Hydroxybromophenylpyrazoline. See
1-Phenyl-3-pyrazolone, 4-bromo-.

- β -Hydroxybutaldehyde**, formation of, from acetaldehyde (MICHAEL and KOPP), 1884, A., 420.
- Hydroxybutanedisulphonic acid** (HAUBNER), 1892, A., 424.
- Hydroxybutane- β -sulphonic acid**, sodium salt of (HAUBNER), 1892, A., 424.
- γ -Hydroxyisobutanesulphonic acid**, barium salt of (GUARESCHI and GARZINO), 1888, A., 436.
- α -Hydroxy- p -isobutylbenzoic acid** (v. DOBRZYCKI), 1888, A., 368.
- Hydroxyisobutylphosphinic acid** (FOSSEK), 1885, A., 504.
- β -Hydroxybutylpiperidine** (*α -pipicolyl-ethylalkine*) (MATZDORFF), 1890, A., 1436.
- Hydroxybutylpyridine** (*α -propylpyridylalkine*) (ENGLER and MAJMON), 1891, A., 1505.
- β -Hydroxybutylpyridine** (*α -picolylethylalkine*) (MATZDORFF), 1890, A., 1436.
- Hydroxyisobutylpyrotartaric acid**, salts of (FITTIG and SCHNEEGANS), 1890, A., 591.
- Hydroxyisobutylpyrotartaric acids**, α - and β -, salts of (FITTIG and FEIST), 1890, A., 592, 593.
- Hydroxyisobutyramide**, *tetrachloro*-, formation of (LEVY, WITTE and CURCHOD), 1890, A., 234.
- Hydroxyisobutyramidine hydrochloride** (PINNER), 1884, A., 1292.
- α -Hydroxybutyric acid**, β -amido- (MELIKOFF), 1884, A., 1301.
- p -bromo- (KOLBE), 1883, A., 574; (MELIKOFF), 1885, A., 650.
- β -chloro- (MELIKOFF), 1883, A., 311; (MELIKOFF and PETRENKO-KRITSCHENKO), 1892, A., 296.
- β -Hydroxybutyric acid**, laevorotatory, in the blood of a diabetic patient (HUGOTENNEQ), 1887, A., 936.
- in the urine in cases of *Diabetes mellitus* (MINKOWSKI), 1885, A., 413.
- in diabetic urine (KULZ), 1885, A., 285; 1887, A., 290; (DEICHMÜLLER, SZYMANSKI and TOLLENS), 1885, A., 830; (STADELMANN), 1887, A., 464; (WOLFE), 1887, A., 857.
- β -Hydroxybutyric acid**, α -chloro- (MELIKOFF), 1883, A., 969; 1884, A., 1301; 1885, A., 650; 1887, A., 30; (MELIKOFF and PETRENKO-KRITSCHENKO), 1892, A., 296.
- γ -trichloro- (v. GARZAROLI-THURNLACKH), 1892, A., 429.
- γ -Hydroxybutyric acid** (FRUHLING), 1883, A., 42.
- transformation of, into its lactone (HENRY), 1892, A., 1303.
- Hydroxyisobutyric acid**, conversion of acetonechloroform into (WILLGERODT), 1883, A., 177.
- amido- (MELIKOFF), 1885, A., 650.
- p -bromo- (KOLBE), 1883, A., 573; (MELIKOFF), 1885, A., 650.
- chloro- (MELIKOFF), 1884, A., 1301; 1885, A., 650.
- distillation of, with water (MELIKOFF and PETRENKO-KRITSCHENKO), 1890, A., 736.
- tetrachloro*- (LEVY, WITTE and CURCHOD), 1890, A., 234.
- Hydroxyisobutyrimido-ether hydrochloride** (PINNER), 1884, A., 1292.
- Hydroxybutyro- α -toluido- α -tolylcarbamine**, α -chloro- (RUCHEIMER and SCHRAMM), 1888, A., 503.
- Hydroxycaffeine**, and its salts (FISCHER), 1883, A., 355.
- Hydroxycamphocarboxylic acid** from camphocarboxylic acid (HALLER and MINGUIN), 1890, A., 638.
- Hydroxycampholactonic acid** (WÖRINGER), 1885, A., 669.
- Hydroxycamphor**. See Campholenic acid.
- Hydroxycamphoric acids** (KACHLER and SPIZER), 1883, A., 1008; 1889, A., 158.
- Hydroxycarbamidophenol** (KALCKHOFF), 1883, A., 1110.
- Hydroxycarbimidophenol** (BENDER), 1887, A., 245.
- Hydroxycarbon compounds**, action of non-metallic nitrides and hydronitrides on (VIDAL), 1892, A., 1311.
- 3'-Hydroxycarbostyryl** (FRIEDLANDER and WEINBERG), 1883, A., 351.
- 4'-Hydroxycarbostyryl** (v. BAeyer and BLAEM), 1883, A., 197.
- 3'-nitroso-*(guinisoborine)*** (v. BAeyer and HOMOLKA), 1884, A., 1029.
- α -Hydroxy- α -carboxycinnamic lactone** (BAMBERGER and KRITSCHELT), 1892, A., 857.
- Hydroxycarboxylic acids**, aromatic, anhydrides of (SCHIFF), 1883, A., 335.
- Hydroxycarboxymethylquinoxalineureide** (HINSBERG), 1885, A., 909.
- Hydroxycarboxytolylglyoxylic acid**, dibromo- (*dibromohydroxytolylbenzoyldicarboxylic acid*) (WILL and LEYMAN), 1886, A., 253.
- Hydroxycellulose**, formation of, electrochemically (HOPPELSROEDER), 1885, A., 208.

- Hydroxyhexachloropentenecarboxylic acid** (ZINCKE and KÜSTER), 1888, A., 1277.
- α*-Hydroxycinchomeronic acid** (*2-hydroxy-pyridine-3:4-dicarboxylic acid*) (WEIDEL and STRACHE), 1886, A., 951.
- Hydroxycinchononic acid** (*2'-hydroxy-quinoline-4'-carboxylic acid*) (KÖNIGS and KÖRNER), 1884, A., 84.
- α*-Hydroxycinchonine** and its derivatives (JUNGFLEISCH and LÉGER), 1888, A., 380, 507; 1889, A., 906.
- β*-Hydroxycinchonine** (JUNGFLEISCH and LÉGER), 1888, A., 380, 507.
- Hydroxycinnamic acid.** See Coumaric acid.
- Hydroxyennoline** and its derivatives (v. RICHTER), 1883, A., 1105; (BUSCH and KLEIN), 1892, A., 1494.
- Hydroxycitraconic acid** and its derivatives (SCHERKEN), 1885, A., 513; (MELIKOFF and FELDMANN), 1890, A., 29.
- Hydroxycitric acid** (v. LIPPMANN), 1883, A., 913.
sodioferrous salt of (ROTHER), 1883, A., 458.
- Hydroxycitronic acid** (v. LIPPMANN), 1884, A., 939.
- Hydroxycoacetylacetic acid** (EINHORN), 1889, A., 169.
- Hydroxycoumazine**, and its derivatives (KRIPPENDORFF), 1885, A., 1243.
- Hydroxycoumenamic acid.** See 3:4:5-Trihydroxypicolinic acid.
- Hydroxy-compounds**, action of aluminium chloride on (CLAUS and MERCKLIN), 1886, A., 143.
action of sulphur on the salts of aromatic (LANGE), 1888, A., 375.
- Hydroxycouinine**, tribromo- (v. HOFMANN), 1885, A., 563.
- Hydroxy-*m*-coumaric acid** and its derivatives (LUDWIG), 1885, A., 664.
- m*-Hydroxycoumarilic acid** (HANTZSCH), 1887, A., 262.
- m*-Hydroxycoumarin** (v. FECHMANN and WELSH), 1884, A., 1346; (BIZARRI), 1885, A., 901.
- Hydroxycroconic acid.** See Leuconic acid.
- Hydroxycoumidine**, and the action of acetic anhydride on (LIEBERMANN and v. KOSTANECKI), 1884, A., 1147.
- Hydroxycumylacrylic acids**, *o*- and *m*- (WIDMAN), 1886, A., 466, 467.
- Hydroxycyanamylamine** (TRÜGER), 1888, A., 802.
- Hydroxycyanoconiine** (v. MEYER), 1883, A., 352.
behaviour of, with bromine and potassium hydroxide (v. MEYER), 1883, A., 354.
derivatives of (v. MEYER), 1883, A., 352; (RIESS), 1885, A., 235.
- Hydroxycyanuric disulphide** (KLASON), 1886, A., 325.
- Hydroxycymene**, bromo- (MAZZARA), 1886, A., 1017.
- γ*-Hydroxydecylic acid** (SCHNEEGANS), 1885, A., 650.
- Hydroxydehydracetic acid** and its acetyl-compound (PERKIN and BERNHART), 1884, A., 1121; (PERKIN), 1887, T., 491, 492.
- Hydroxydeoxybenzoin** (NEY), 1888, A., 1197.
- Hydroxy-*m*-diazines** (v. MEYER), 1890, A., 68.
- Hydroxydiethylallylamine**, chloro- (REBOUL), 1884, A., 578.
- 6-Hydroxy-2:4-diethyl-*m*-diazine-5-carboxylic acid** (v. MEYER), 1889, A., 686.
- Hydroxydifurfuryleyanidine** (PINNER), 1892, A., 1008.
- Hydroxydihydropyridinecarboxylic acid**, aldehyde of (OST), 1883, A., 793.
- 2'-Hydroxydihydroquinoline.** See Hydrocarbostyryl.
- Hydroxydihydroquinolone** (ERLENMEYER and LIPP), 1883, A., 993.
- Hydroxydihydroquinoxaline** (PLOCHE), 1886, A., 351.
- Hydroxydiketodihydropentene**, tri-bromo- (NEF), 1890, A., 1272.
- Hydroxydiketohexene**, pentabromo- (ZINCKE and KEGEL), 1890, A., 1109.
- Hydroxydiketohydrindocarboxylic acid**, dichloro- (ZINCKE), 1888, A., 489.
- Hydroxydiketopentamethylenecarboxylic acid**, *mono*- and *di*-chloro- (HANTZSCH), 1890, A., 131, 132.
trichloro- (HANTZSCH), 1888, A., 1190; (LANDOLT), 1892, A., 835.
tetrachloro- (LANDOLT), 1892, A., 836.
- 4'-Hydroxydimethylamido-*α*-naphthaquinone** (MYLIUS), 1885, A., 803.
- Hydroxydimethylamidoquinone** (KEHRMANN), 1890, A., 757.
- Hydroxy-2:3-dimethylbenzoic acid** (JACOBSEN), 1887, A., 36.
- 2-Hydroxy-3:5-dimethylbenzoic acid** (*hydroxyrylic acid*) (GUNTHER), 1884, A., 1347.

- 2-Hydroxy-4:6-dimethylbenzoic acid (JACOBSEN), 1886, A., 709.
- Hydroxydimethylbutyrolactonecarboxylic acid (ZELINSKY), 1892, A., 436.
- 6-Hydroxy-2:4-dimethyl-*m*-diazine (PINNER), 1886, A., 46; 1889, A., 1006.
- 4-Hydroxy-2:6-dimethyl-*m*-diazine, 5-bromo-, hydrobromide of (PINNER), 1887, A., 1054.
- β-Hydroxydimethylethylamine (KNORR), 1889, A., 905.
- 6-Hydroxy-2:5-dimethyl-4-ethyl-*m*-diazine (v. MEYER), 1890, A., 69.
- 6-Hydroxy-4:5-dimethyl-2-ethyl-*m*-diazine (PINNER), 1889, A., 1007.
- β-Hydroxy-α-dimethylisocaproic acid (WOHLBRUCK), 1887, A., 1099.
- Hydroxydimethylidodecylmethylethylene (KIPPING and PERKIN), 1891, T., 224.
- β-Hydroxydimethylnaphthaquinoline-sulphonic acid (REED), 1887, A., 681.
- Hydroxydimethylpurin (FISCHER), 1884, A., 997.
- 1-Hydroxy-2:5-dimethylpyrroline-3-carboxylic acid (KNORR), 1887, A., 275.
- 4'-Hydroxy-2:2'-dimethylquinazoline (NIEMENTOWSKI), 1888, A., 837.
- Hydroxy-2':3'-dimethylquinoline [m.p. 44°] (BEYER), 1886, A., 630.
- 1-Hydroxy-2':4'-dimethylquinoline (ENGLER and BAUER), 1889, A., 524.
- 3-Hydroxy-2':4'-dimethylquinoline (ENGLER and BAUER), 1889, A., 525.
- 4'-Hydroxy-1':2'-dimethylquinoline. See 4'-Oxy-1':2'-dimethylquinoline.
- 4-Hydroxy-1:3-dimethylquinoline (NOLTING and TRAUTMANN), 1891, A., 328; 1892, A., 729.
- 4'-Hydroxy-2':3'-dimethylquinoline (CONRAD and LIMPACH), 1892, A., 78.
- Hydroxydimethylquinoxaline (HINSBERG), 1884, A., 1053; 1889, A., 280; 1892, A., 1359.
- di-bromo- (NASTVOGEL), 1889, A., 238.
- Hydroxydimethylsulphonebenzide (*di-hydroxyditolylsulphone*) (TASSINARI), 1889, A., 246.
- p*-Hydroxydiphenyl and its derivatives (KATSER), 1890, A., 898.
- synthesis of, from aniline (HILSCH), 1891, A., 437.
- Hydroxydiphenyl, di-amido- (WEINBERG), 1888, A., 285; (GRIESS and DUISBERG), 1890, A., 59.
- Hydroxydiphenyl bases (WEINBERG), 1888, A., 285.
- Hydroxydiphenyl triketone (SODERBAUM), 1891, A., 1043.
- Hydroxydiphenylamine, di-nitro- [m.p. 190°] (NIETZKI and SCHUNDELEN), 1892, A., 310.
- thio- (BERNHSEN), 1885, A., 260; 1886, A., 55.
- o*-Hydroxydiphenylamine, di-nitro- (SCHOPFF), 1889, A., 772.
- m*-Hydroxydiphenylamine and its derivatives (CALM), 1884, A., 591.
- p*-amido and *p*-nitroso- (KOHLER), 1888, A., 587.
- p*-Hydroxydiphenylamine and its derivatives (CALM), 1884, A., 592; (PHILIP and CALM), 1885, A., 155.
- Hydroxydiphenylbenzyl-maleide and -maleimidine, nitro- (COHN), 1892, A., 485, 486.
- γ-Hydroxy-γ-diphenylbutyric acid (AUGER), 1888, A., 952.
- o*-Hydroxydiphenylcarbamide (LEUCKART), 1890, A., 761.
- Hydroxydiphenyloxyaniline (PINNER), 1890, A., 497.
- 6-Hydroxy-2:4-diphenyl-*m*-diazine, formation of (PINNER), 1889, A., 1008; (SCHWARZE), 1890, A., 1159.
- 6-Hydroxy-2:4-diphenyl-*m*-diazine-5-carboxylic acid (v. MEYER), 1890, A., 68.
- 4'-Hydroxydiphenyl-2:2'-disulphonic acid, 4-amido- (LIMPRICHT), 1891, A., 929.
- Hydroxydiphenylene ketone, and its derivatives (RICHTER), 1884, A., 325.
- Hydroxydiphenylethane (KOENIGS), 1891, A., 208; (KOENIGS and CARL), 1892, A., 466.
- Hydroxydiphenylethylamine and its derivatives (GOLDSCHMIDT and POŁONOWSKA), 1887, A., 492; (ZANETTI), 1891, A., 726.
- Hydroxydiphenylmethane-di- and -tri-carboxylic acids (JUILLARD), 1888, A., 707.
- 6-Hydroxy-2:4-diphenyl-5-methyl-*m*-diazine (v. MEYER), 1889, A., 578; 1890, A., 68.
- formation of (SCHWARZE), 1890, A., 1159.
- m*-Hydroxydiphenylnitrosamine (KOHLER), 1888, A., 587.
- Hydroxydiphenylpropionic acid (LIEBERMANN and HARMANN), 1891, A., 1481.
- Hydroxydiphenylpropylenediamine (FAUCONNIER), 1888, A., 1281.
- p*-Hydroxydiphenylquinoxaline (AUTENRIETH and HINSBERG), 1892, A., 733.

- 3-Hydroxydiphenyl-6-sulphonic acid, 4:4'-diamido- (WEINBERG), 1888, A., 285.
- Hydroxydiphthalyl (GRABBE and GUYE), 1886, A., 882.
- Hydroxydipropylamine platinochloride (LIEBERMANN and PAAL), 1883, A., 910.
- Hydroxydiquinolyl (WEIDEL and GLÄSER), 1886, A., 949; (WEIDEL), 1887, A., 848.
- 1-Hydroxy-4:2'-disulpho- β -naphthoic acid (KÖNIG), 1889, A., 719.
- Hydroxyditolyleyanidine (PINNER), 1892, A., 1008.
- 2'-Hydroxy-5:5'-ditolyl-4:4'-disulphonic acid, 2-amido- (HELLE), 1892, A., 1468.
- Hydroxydixanthenes (v. KOSTANECKI and NESSLER), 1892, A., 504; (v. KOSTANECKI and SEIDMANN), 1892, A., 1097.
- Hydroxydurylic acid (JACOBSEN and SCHNAPPAFF), 1886, A., 68.
- Hydroxy- β -isodurylic acid (KROHN), 1883, A., 594.
- Hydroxyethanedisulphonic acid, salts of (MONARI), 1885, A., 970.
- Hydroxyethanesulphonic acid. See Isethionic acid.
- Hydroxyethenylamylacetic acid (POETSCH), 1883, A., 730.
- Hydroxyethoxyanthraquinone (LIEBERMANN and JELLINEK), 1888, A., 716.
- Hydroxyethoxydiphenylamine, dinitro- (NIETZKI and KAUFMANN), 1892, A., 314.
- Hydroxyethoxymethylquinoxaline (AUTENRIETH and HINSBERG), 1892, A., 733.
- 6-Hydroxy-2-*p*-ethoxyphenyl-5-benzyl-4-methyl-*m*-diazine (PINNER), 1891, A., 64.
- 6-Hydroxy-2-*p*-ethoxyphenyl-*m*-diazine-4-carboxylic acid (PINNER), 1891, A., 64.
- 6-Hydroxy-2-*o*- and -*p*-ethoxyphenyl-4-methyl-*m*-diazines (PINNER), 1891, A., 64.
- 6-Hydroxy-2-*p*-ethoxyphenyl-4-phenyl-*m*-diazine (PINNER), 1891, A., 64.
- Hydroxyethoxypyridine [m.p. 128°] (WEIDEL and BLAU), 1886, A., 76.
- 2-Hydroxyethoxypyridine, dichloro-4-amido- (STOKES and v. PECHMANN), 1887, A., 157.
- 1-Hydroxy-1-ethoxyquinoline, 2:4-dichloro- (HEBBRAND), 1889, A., 61.
- 4'-Hydroxy-2'-ethoxyquinoline (BISCHOFF), 1889, A., 519.
- Hydroxyethylacetamide picrate (GABRIEL), 1889, A., 1134.
- Hydroxyethyl-*o*-amidophenol (KNORR), 1889, A., 1219.
- Hydroxyethylamine (*amidoethylalcohol*) nitrate (GABRIEL), 1888, A., 1268.
- salts (GABRIEL), 1888, A., 440.
- Hydroxyethylaniline, preparation of (KNORR), 1889, A., 1219; (OTTO), 1891, A., 1873.
- Hydroxyethyl-*o*-anisidine (KNORR), 1889, A., 1219.
- Hydroxyethylbenzamide (GABRIEL), 1889, A., 1134.
- Hydroxyethylbenzoic acid (*phloro-carboxylic acid*) (OLIVERI), 1884, A., 174.
- o*-chloronitro-, lactone of (ZINCKE and LATTEN), 1892, A., 1230.
- γ -Hydroxy- α -ethylbutyric acid and its salts (CHANLAHOFF), 1885, A., 375.
- Hydroxyethyl-*m*-diazine-2-carboxylic acid (PINNER), 1892, A., 1008.
- 1-Hydroxy-1'-ethylenehydroquinoline (KÖHN), 1886, T., 508.
- Hydroxyethylethylaniline (*phenyldiethylalkine*) (LAUN), 1884, A., 1011.
- 5-Hydroxyethyl-2-ethylpiperidine (2:5-methylethylpiperidylalkine) (PRAUSNITZ), 1892, A., 1358.
- 2-Hydroxyethyl-5-ethylpyridine (*methylethylpyridylalkine*) (PRAUSNITZ), 1890, A., 1436.
- δ -Hydroxyethylhexoic acid, salts of (FITTIG and CHRIST), 1892, A., 962.
- Hydroxyethylhydroxyquinoline and salts of (WURTZ), 1883, A., 923.
- Hydroxyethylic sodium thiosulphate (PURGOTTI), 1892, A., 1418.
- Hydroxyethylidene-2'-methyl- β -naphthaquinoline, trichloro- (SEITZ), 1889, A., 527.
- Hydroxyethylmethylamine (KNORR), 1889, A., 1218.
- Hydroxyethylmethylaniline (*phenylmethylethylalkine*) and its derivatives (LAUN), 1884, A., 1011.
- Hydroxyethylmethyl-*o*-anisidine (KNORR), 1889, A., 1220.
- 2-Hydroxyethyl-1-methylpiperidine (*methylethylpiperidylalkine*) and its derivatives (LADENBURG), 1890, A., 68; 1891, A., 1093; (LIPP), 1892, A., 1245.
- 2-Hydroxyethyl-1-methyltetrahydropyridine (LIPP), 1892, A., 1244.
- Hydroxyethylnaphthylamines (OTTO), 1891, A., 1874.
- Hydroxyethylphosphinic acid (FOSSEK), 1886, A., 530.

- Hydroxyethyl-phthalamic acid and -phthalimide** (GABRIEL), 1888, A., 440.
- 2-Hydroxyethylpiperidine** (LADENBURG), 1890, A., 67; 1891, A., 1093.
- ω -Hydroxyethylpiperonylcarboxylic acid** (PERKIN), 1890, T., 996, 1020. oxidation of (PERKIN), 1890, T., 1022. salts of (PERKIN), 1890, T., 1023. bromo- (PERKIN), 1890, T., 1025.
- ω -Hydroxyethylpiperonylcarboxylic anhydride** (PERKIN), 1890, T., 1021. bromo- and nitro- (PERKIN), 1890, T., 1025, 1027.
- Hydroxyethylpropylamine and its platinumchloride** (LIEBERMANN and PAAT), 1883, A., 910.
- Hydroxyethylpropylaniline** (LAUN), 1884, A., 1011.
- 2-Hydroxyethylpyridine** (α -picolyl-alkine) and derivatives of (LADENBURG), 1890, A., 67; 1891, A., 1092.
- α -Hydroxyethylpyrocatesholcarboxylic anhydride** (PERKIN), 1890, T., 1027.
- 4-Hydroxy-3'-ethylquinoline, 2'-chloro-** (RUGHEIMER and SCHRAMM), 1887, A., 738.
- 1-Hydroxy-1'-ethyltetrahydroquinoline** (FISCHER), 1883, A., 1146; (FISCHER and RENOUR), 1884, A., 1049. ethiodide (KOH), 1886, T., 505.
- 4-Hydroxy-1'-ethyltetrahydroquinoline** (RIEMERSCHMIED), 1883, A., 1148.
- Hydroxyethyltheobromine** (FISCHER), 1883, A., 357.
- Hydroxyethyltrihydroquinolinecarboxylic acid** (LIPPMANN and FLEISSNER), 1887, A., 1120.
- Hydroxyethyltrimethylammonium platinumchloride** (BODE), 1892, A., 807.
- Hydroxyethyltrimethylenecarboxylic acid** (MARSHALL and PERKIN), 1891, T., 870.
- γ -Hydroxyethylvaleric acid** (YOUNG), 1883, T., 177.
- Hydroxyethylxanthine** (LEHMANN), 1890, A., 32.
- Hydroxy- ψ -flavenol** (WEIDEL and DAMBERGER), 1888, A., 966.
- Hydroxyfluorencarboxylic acid** (GRAEBE and AUBIN), 1889, A., 146.
- Hydroxyfurfuryl-**. See Furfuryl-.
- Hydroxygluconic acid** (BOUTROUX), 1890, A., 1399.
- α -Hydroxyglutaric acid** (WOLFF), 1891, A., 421.
- β -Hydroxyglutaric acid** (v. PECHMANN and JENISCH), 1892, A., 147.
- α -Hydroxy- β -halogen lactic acids**, distillation of, with water (MELIKOFF and PERKENO-KRITSCHENKO), 1890, A., 736.
- Hydroxyheptoic acid** (FITTIG and SCHMIDT), 1890, A., 589. salts of (YOUNG), 1883, A., 455.
- Hydroxyisohheptoic acid** (FITTIG and ZANNER), 1890, A., 590.
- Hydroxyheptylphosphinic acid** (FONSEK), 1886, A., 529.
- β -Hydroxyheptylsuccinic acid** (*heritumalic acid*) and its salts (SCHNEEGANS), 1885, A., 650.
- Hydroxyhexanedisulphonic acid**, barium salt of (LUDWIG), 1889, A., 121.
- Hydroxyhexic acid**. See Propylsuccinic acid.
- Hydroxyisohexic acid**. See isoPropyltartaric acid.
- γ -Hydroxyhexoamide** (FITTIG and DUBOIS), 1890, A., 880.
- Hydroxyhexoic acid** (HANZSCH and WOHLBRUCK), 1887, A., 717.
- γ -Hydroxyhexoic acid**, ammonium salt of (FITTIG and DUBOIS), 1890, A., 880. lactone of, conversion of gluconic acid into (KILIANI and KLEEMANN), 1884, A., 730, 993. action of sodium ethylate on (FITTIG), 1885, A., 375; (FITTIG and DUBOIS), 1890, A., 868.
- γ -Hydroxyisohexoic acid**, lactone of, action of sodium ethylate on (ERDMANN), 1885, A., 963. action of water and of hydriodic acid on (FITTIG and RUHLMANN), 1885, A., 375.
- δ -Hydroxyhexoic acid**, α - and β -lactones of (GOTTFSTEIN), 1883, A., 454.
- Hydroxyhydrastinine** and its derivatives (FREUND and WILL), 1887, A., 1057.
- α -Hydroxyhydrindenecarboxylamide**, tetrachloro- (ZINCKE and ARNAT), 1892, A., 858.
- Hydroxyhydrocarbostryl** (2':4'-dihydroxy-3':4'-dihydroquinoline) (EINHORN), 1884, A., 1838. 3-chloro- (EICHENGRUN and EINHORN), 1890, A., 1128; 1891, A., 1100.
- Hydroxyhydro-*p*-coumaric acid** (BLENDERMANN), 1883, A., 818.
- Hydroxyhydrocyanomesitenelactone** (OBRÉGIA), 1892, A., 325.
- Hydroxyhydroisodehydracetic acid**, nitrile of (OBRÉGIA), 1892, A., 325.
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- 1-Hydroxyhydroquinoline** (SKRAUP), 1883, A., 93.
- 2-Hydroxyhydroquinoline** (SKRAUP), 1883, A., 96; (RIEMERSCHMIED), 1883, A., 1148.
- 3-Hydroxyhydroquinoline** (SKRAUP), 1883, A., 94.
- Hydroxyhydroquinoxalines** (HINSBERG), 1889, A., 280.
- Hydroxyimidomethyluracil** (JAEGER), 1891, A., 1007.
- Hydroxyimido-methyl- and -phenyl-synoxazolones** (NUNSBERGER), 1892, A., 1175, 1177.
- Hydroxyindazine** (WITT, NÜLTING and GRANDMOTGIN), 1891, A., 312.
- Hydroxyindene-carboxylic acid** (*hydroindene-carboxylic acid*) (ZINCKE), 1887, A., 728.
- Hydroxyindone**, bromo- (RONER and HASELHOFF), 1888, A., 1304; (MELDOLA and HUGHES), 1890, T., 400.
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- Hydroxyketohydrindenecarboxylamide**, *dichloro-* (ZINCKE and ARNST), 1892, A., 858.
- Hydroxyketohydrindenecarboxylic acid**, *dibromo-*, *dichloro-*, and *chloro-bromo-* (ZINCKE and GERLAND), 1888, A., 1199, 1198.
- Hydroxyketoindene**, *chloro-* and *bromo-* (ZINCKE and GERLAND), 1888, A., 1199, 1200.
- γ -Hydroxy- α -ketojuloline** and **β -nitroso-** (KAYSER and REISSERT), 1892, A., 884.
- Hydroxyketone-dyes** (GRÆBE and EICHENGRÜN), 1891, A., 706; 1892, A., 1224.
- Hydroxyketones**, aromatic (CRÉPEUX), 1892, A., 62.
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- Hydroxyl group**, reagent for (LAND-WEHR), 1887, A., 124; (HINSBERG), 1891, A., 49.
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- Hydroxylamine**, poisonous action of (LOEW), 1885, A., 830.
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- Hydroxylation** by direct oxidation (MEYER), 1883, A., 983, 1072.
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- Hydroxylevulinic acids**, α - and β - (WOLFF), 1891, A., 1187, 1185.
- Hydro-xyloquinone**. See Xyloquinol.
- Hydroxylutidinecarboxylic acid**, ethylic salt of (COLLIE), 1885, A., 374.
- Hydroxymaleic acid** (SCHERKES), 1884, A., 993; 1885, A., 513.
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- o*-Hydroxymandelic acid** (v. DAAYER and FRITSCH), 1884, A., 1022.
- Hydroxymellitic acid** (*hydrotrimellitic acid*) and its salts (JACOBSEN and MEYER), 1883, A., 590.
- Hydroxymesitenedicarboxylic acid** (HANTZSCH), 1883, A., 1083.
- Hydroxymethanesulphonic acid**, sodium salt of (KRAUT, ESCHWEILER and GROSSMANN), 1890, A., 1092.
- Hydroxymethenylamidophenol** (SANDMEYER), 1887, A., 135; (BENDER), 1887, A., 245.
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- o*-Hydroxy-*p*-methoxyacetophenone** (NAGAI), 1892, A., 59.
- 2-Hydroxy-4-methoxyallylbenzene** (v. PECHMANN and COHEN), 1884, A., 1331.
- p*-Hydroxy-*o*-methoxybenzaldehyde-phenylhydrazon** (MAROUS), 1892, A., 317.
- 1-Hydroxy-3-methoxybenzene, 4-amido-** (BECHHOLD), 1889, A., 1155.
- p*-Hydroxy-*m*-methoxybenzoylformic acid** (*hydroxymethoxyphenylglyoxylic acid*; *vanilloyl acid*) (TIEMANN), 1892, A., 64.
- m*-Hydroxy-*o*-methoxycinnamic acid** (SCHNELL), 1884, A., 1165; 1887, A., 140.
- 4'-Hydroxy-1- and -3-methoxy-2'-methylquinolines** (CONRAD and LIMPAICH), 1888, A., 854, 853.
- Hydroxymethoxyquinoline** (LA COSTE and VALEUR), 1887, A., 973.
- 2'-Hydroxy-3-methoxyquinoline** (*methoxycarbostyryl*) (EICHENGRUN and EINHORN), 1891, A., 1101.
- Hydroxymethoxytoluene** (*hydroxytolyl methyl ether*) (LIMPAICH), 1889, A., 499.
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- Hydroxy- β -methyl- γ -acetoxime- δ -is-nitrosoamidovaleric acid**, lactam of (OBRÉGIA), 1892, A., 326.
- Hydroxymethylacridine** (BENTHORN and URTMAN), 1891, A., 1233.
- Hydroxymethylanthraquinone**, and its acetyl-derivative (ROEMER and LINK), 1883, A., 1139.
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- Hydroxymethylpyrotartaric acid** (*methyltartaric acid*), salts of (FILLIG and FRANKEL), 1890, A., 585.
- 4'-Hydroxy-2-methylquinazoline** (NIEMENPOWSKI), 1889, A., 1065.
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- 1-Hydroxy-2-methylquinoline** (*hydroxytoluquinoline*) (NOLTING and TRAUTMANN), 1891, A., 326; 1892, A., 727.
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- 1-Hydroxy-2'-methylquinoline** (*o-hydroxyquinoline*) and its derivatives (DOEBNER and V. MILLER), 1884, A., 1374.
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- 2-amido-** (GANELIN and V. KOSTANECKI), 1892, A., 506.
- 1-Hydroxy-4'-methylquinoline** (*hydroxyepidine*) (BUSCH and KOENIGS), 1890, A., 1435.
- 3-Hydroxy-1-methylquinoline** (HERZFELD), 1884, A., 1199.
- 3-Hydroxy-2'-methylquinoline** (*p-hydroxyquinoline*) (DOEBNER and V. MILLER), 1884, A., 1374.
- 3-Hydroxy-4'-methylquinoline** (KOENIGS), 1890, A., 1434; (BUSCH and KOENIGS), 1890, A., 1435.
- 3-Hydroxy-4-methylquinoline**, 1-nitro- (NOLTING and TRAUTMANN), 1891, A., 326.
- 4-Hydroxy-1-methylquinoline** (HERZFELD), 1884, A., 1199.
- 4-Hydroxy-3-methylquinoline** and nitroso- (NOLTING and TRAUTMANN), 1891, A., 326.
- 4'-Hydroxy-1-methylquinoline**, 2':3'-dichloro- (RUEHEIMER and HOFFMANN), 1886, A., 160.
- 4'-Hydroxy-2'-methylquinoline** (*hydroxyquinoline*) (CONRAD and LIMPACH), 1887, A., 679; 1888, A., 1109; (KNORR), 1887, A., 847.
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- 2'-Hydroxy-4'-methylisoquinoline**, chloro- (GABRIEL), 1887, A., 1112.
- Hydroxymethylquinolines**, 4:1:2-, 2:1:1- and 3:4:1-nitro- (NOLTING and TRAUTMANN), 1892, A., 727, 728, 729.
- 4'-Hydroxy-2'-methylquinoline-3'-carboxylic acid and aldehyde** (CONRAD and LIMPACH), 1888, A., 1109.
- Hydroxy-2'-methylquinolineazobenzenesulphonic acid**, sodium salt of (CONRAD and LIMPACH), 1888, A., 1109.
- 1-Hydroxy-2'-methylquinolinecarboxylic acid** (KONIG), 1888, A., 610.
- 2'-Hydroxy-4'-methylquinoline-1-carboxylic acid** (REINERT), 1891, A., 737.
- 4-Hydroxy-2'-methylquinoline-3'-carboxylic acid** (CONRAD and LIMPACH), 1888, A., 1110.
- 2'-Hydroxymethylquinolinesulphonic acid** (FEER and KOENIGS), 1885, A., 1235.
- 4'-Hydroxy-2'-methylquinolinesulphonic acid** (CONRAD and LIMPACH), 1888, A., 1110.
- Hydroxymethylquinoxaline** (*hydroxytoluquinoxaline*) (HINSBERG), 1885, A., 910; 1888, A., 561.
- Hydroxymethylquinoxalinecarboxylic acid** (HINSBERG), 1885, A., 909; (ZEHRA), 1891, A., 304.
- Hydroxymethylsuccinic acid**, trichloro-, and its salts (FITTIG and MILLER), 1890, A., 586.
- Hydroxymethylsulphonebetaine** (CLAUS and PUNSELT), 1890, A., 522.
- 5-Hydroxy-2-methylterephthalic acid** (JACOBSEN and MEYER), 1883, A., 590.
- 1-Hydroxy-1'-methyltetrahydroquinoline** (*kuirin*) (FISCHER), 1883, A., 1146; (FISCHER and RENOUF), 1884, A., 1049.
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- 1-Hydroxy-2'-methyltetrahydroquinoline and its derivatives** (DOEBNER and V. MILLER), 1884, A., 1374.
- 2-Hydroxy-4'-methyltetrahydroquinoline and its nitro-derivatives** (FISCHER and WITTMACK), 1884, A., 1052.
- 1-Hydroxymethyltetrahydroquinolinecarboxylic acid** (SCHMITT and ENGELMANN), 1887, A., 738; (KRÖLIKOWSKI and NEMCKI), 1888, A., 865.
- Hydroxymethylthiazole** (TCHERNIAC and HELLON), 1883, A., 654; (TCHERNIAC), 1892, A., 1425.

- Hydroxymethylthiazolecarboxylic acid** (ZURCHER), 1889, A., 725; (WOLLMANN) 1891, A., 226.
- Hydroxymethylthiophen** (*hydroxythiophen*) (KUES and PAAL), 1886, A., 536.
- 1-Hydroxymethyltrihydroquinoline-carboxylic acid**, behaviour of, in the organism (KRÓLIKOWSKI and NENCKI), 1888, A., 865.
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- γ -Hydroxy- α -methylvaleric acid** (GORTSTEIN), 1883, A., 455.
- Hydroxymethylxanthine** (BEHREND), 1886, A., 338; (LEHMANN), 1890, A., 32.
- β -Hydroxymethylxanthone** (v. KOSTANECKI and NESSLER), 1891, A., 1060.
- Hydroxymyristic acid** (HELL and TWERDOMEDOFF), 1889, A., 956.
- β -Hydroxy- α - and α -hydroxy- β -naphthalhydroxamic acids** (JEANRENAUD), 1889, A., 871.
- Hydroxynaphthalide** (GRAEBE and GFELLER), 1892, A., 864.
- β -Hydroxynaphthaquinoline** (GENTIL), 1885, A., 561.
- Hydroxynaphthaquinone**, dibromo- (ARMSTRONG and STREATFIELD), 1886, P., 232.
- 2'-Hydroxy-1:2-naphthaquinone** (CLAUSTUS), 1890, A., 628.
- 2-Hydroxy-1:4-naphthaquinone** (*naphthalic acid*), preparation of (KOWALSKI), 1892, A., 1098.
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- 3-chloro-** (CLAUS and MUELLER), 1886, A., 247.
- 3-bromo- and 3-chloro-**, action of hypochlorous and hypobromous acids on (ZINCKE and GERLAND), 1888, A., 1198.
- trichloro-** (CLAUS), 1886, A., 714.
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- 3-nitro-**, derivatives of (KEHRMANN and WEICHARDT), 1889, A., 1197.
- 4'-Hydroxy-1:4-naphthaquinone** (*juglone*; *nucin*; *regianin*) (BERNTSEN and SEMPER), 1884, A., 1365; (BERNTSEN and SEMPER), 1885, A., 546; 1886, A., 363; 1887, A., 674; (MYLIUS), 1885, A., 803.
- 4'-Hydroxy-1:4-naphthaquinone** (*juglone*; *nucin*; *regianin*), identity of, with regianin and nucin (PHIPSON), 1885, A., 1112.
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- 2-Hydroxy-1:4-naphthaquinoneanilide and 3-chloro-** (ZINCKE and KEGEL), 1889, A., 267, 268.
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- 4'-Hydroxy-1:4-naphthaquinone-dioxime** (*juglone-dioxime*) (BERNTSEN and SEMPER), 1886, A., 364.
- 2-Hydroxy-1:1-naphthaquinoneimide** (KRONFELD), 1884, A., 1037; (MEERSON), 1888, A., 1200.
- 3-bromo-** (ZINCKE and GERLAND), 1887, A., 838.
- 3-Hydroxy-1:4-naphthaquinone-4-imide**, 2-chloro- (ZINCKE and SCHMUNK), 1890, A., 1147.
- 3-Hydroxy-1:4-naphthaquinone-o-xime** (v. KOSTANECKI), 1889, A., 887.
- 2-chloro-** (ZINCKE and SCHMUNK), 1890, A., 1147.
- 4'-Hydroxy-1:4-naphthaquinone-o-xime** (*juglone-o-xime*) (BERNTSEN and SEMPER), 1885, A., 547.
- 2'-Hydroxy-2:1-naphthaquinone-o-xime** (CLAUSIUS), 1890, A., 628.
- 2-Hydroxy-1:4-naphthaquinonesulphonic acid**, 3-chloro- (CLAUS and VAN DER CLOET), 1888, A., 603.
- Hydroxynaphthaquinoneoxalinearboxylic acid** (KÜHLING), 1891, A., 1342.
- Hydroxynaphthalic acid** (WALDER), 1883, A., 666.
- Hydroxynaphthol-trichloride diethylic orthophosphate** (WOLFFENSTEIN), 1889, A., 615.
- 1'-Hydroxy- α -naphthoic acid** (*naphthol-carboxylic acid*) (EKSTRAND), 1886, A., 715.
- chloro-**, and **nitro-** (EKSTRAND), 1889, A., 153.
- 2-Hydroxy- α -naphthoic acid** [m.p. 157°] and derivatives (NIETZKI and GUTERMANN), 1887, A., 732; (SCHMITT and BURKARD), 1888, A., 60.
- action of phosphorus pentachloride on** (RABE), 1889, A., 514.

- 1-Hydroxy- β -naphthoic acid (NIETZKI and GUTTERMANN), 1887, A., 732; (SCHMITT and BURKARD), 1888, A., 59.
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 action of phosphorus pentachloride on (WOLFFENSTEIN), 1887, A., 963; 1888, A., 714.
 4-amido-(NIETZKI and GUTTERMANN), 1887, A., 732; (SCHMITT and BURKARD), 1888, A., 59.
- 3-Hydroxy- β -naphthoic acid [m.p. 216°] (SCHMITT and BURKARD), 1888, A., 60.
 action of aniline on (SCHÜPF), 1892, A., 1476.
- 3-Hydroxy- β -naphthoic anilide (SCHÜPF), 1892, A., 1476.
- 3'-Hydroxy- β -naphthoxanthone (v. KOSTANECKI), 1892, A., 1099.
- Hydroxynaphthoxanthones (BENER), 1892, A., 1100.
- α -Hydroxynaphthyl methyl ketone (WITT), 1888, A., 486.
- β -Hydroxynaphthylacrylic acid and anhydride (KAUFFMANN), 1883, A., 1136.
- $\alpha\beta$ -Hydroxynaphthylbenzoic acid, and its derivatives (WALDER), 1883, A., 666.
- 6-Hydroxy-2- β -naphthyl-*m*-diazine-4-carboxylic acid (PINNER), 1892, A., 1008.
- 6-Hydroxy-2- β -naphthyl-4:5-dimethyl-*m*-diazine (PINNER), 1892, A., 1009.
- Hydroxynaphthyl sulphide [m.p. 214°—215°] (TASSINARI), 1887, A., 808.
- β -Hydroxynaphthyl mono- and -disulphides (ONUFROWICZ), 1891, A., 320, 321.
- 6-Hydroxy-2- β -naphthyl-4-methyl-*m*-diazine (PINNER), 1892, A., 1009.
- Hydroxynaphthylphenyl, diamido-, derivatives of (MELDOLA and MORGAN), 1889, T., 124, 125.
- Hydroxy- α -naphthylthiocarbamide (TIEMANN), 1889, A., 1165; (VOLTMER), 1890, A., 1127; 1891, A., 558.
- 2-Hydroxynicotinic acid (2-hydroxypyridine-3-carboxylic acid) (WEIDEL and STRACHE), 1886, A., 951.
- 6-Hydroxynicotinic acid (6-hydroxypyridine-3-carboxylic acid) and its derivatives (KOENIGS and GEIGY), 1884, A., 1195; (v. PECHMANN and WELSH), 1885, T., 150; A., 174; (v. PECHMANN), 1885, A., 176.
- 6-Hydroxynicotinic acid (6-hydroxypyridine-3-carboxylic acid), preparation of, from hydroxyquinolinic acid (KOENIGS and GEIGY), 1884, A., 945.
- Hydroxynitroethenylamido- α -naphthol (MEERON), 1888, A., 713.
- α -Hydroxy-*o*-nitrophenylbutene- ω -dicarboxylic acid (EINHORN and GEBRENBECK), 1890, A., 163.
- Hydroxyoctoic acid (HANTZSCH), 1889, A., 372.
 salts of (YOUNG), 1883, A., 456; (FITZIG and CHRIST), 1892, A., 962.
- Hydroxyoleic acid and its salts (LIECHTIG and SUIDA), 1884, A., 239.
- Hydroxyiso-oxazolidedicarboxylic acid (v. PECHMANN), 1891, A., 738.
- Hydroxyoxindole chloride, amido- (JACKSON and BENTLEY), 1892, A., 1219.
- Hydroxyoxydipropionic acid, chloro- (WILLGERODT and SCHIFF), 1890, A., 959.
- α -Hydroxypalmitic acid (HELL and IORDANOFF), 1891, A., 820.
- Hydroxypentanetricarboxylic anhydride (dicarboxaprolactonic acid) and its derivatives (HJELT), 1883, A., 970.
- Hydroxypentene, tetramido- (NIETZKI and ROSEMAN), 1889, A., 770.
- α -Hydroxypentene cyanide, $\gamma\gamma$ -hexachloro- (ZINCKE and KÜSTER), 1890, A., 1256.
- Hydroxypentenecarboxylic acid, $\gamma\gamma$ -hexachloro- (ZINCKE and KÜSTER), 1890, A., 754.
- Hydroxyptic acid, identity of, with ethyltartaric acid (GORBOFF), 1888, A., 1179.
- Hydroxyperezone (hydroxypipitzahoic acid) (ANSCHÜTZ and LEATHER), 1886, T., 728.
 and its salts (MYLIUS), 1885, A., 778.
 dibromide (ANSCHÜTZ and LEATHER), 1886, T., 732.
- Hydroxyphenanthraquinonephosphinic acid (FOSSEK), 1886, A., 530.
- Hydroxyphenanthraquinones (ANSCHÜTZ and MEYER), 1885, A., 1067.
- p*-Hydroxyphenanthrazine (AUTENRIETH and HINSBERG), 1892, A., 733.
- Hydroxyphenanthridine (PIOTET and ANKERSMIT), 1892, A., 197.
- Hydroxyphenanthroline (LA COSTE), 1883, A., 811.
- Hydroxyphenindulone, chloro- (KEHRMANN and MESSINGER), 1891, A., 747.
- Hydroxyphenonaphthoxanthone (v. KOSTANECKI), 1892, A., 1099; (BENER), 1892, A., 1100.
- Hydroxyphenyl ethyl ketone. See Propionylphenol.

- Hydroxyphenyl hydroxy- α - and - β -naphthyl ketones** (PHOMINA), 1890, A., 389, 901.
- Hydroxyphenyl mercaptan** (HAITINGER), 1883, A., 989.
- Hydroxyphenyl hydroxytolyl ketone** (PHOMINA), 1890, A., 389.
- p*-Hydroxyphenylacetamide** (SALKOWSKI), 1889, A., 1173.
- Hydroxyphenylacetamidine and its hydrochloride** (BEYER), 1884, A., 65; 1885, A., 982.
- o*-Hydroxyphenylacetic acid and its derivatives** (V. BAeyer and FRITZCH), 1884, A., 1021.
- m*-Hydroxyphenylacetic acid** (SALKOWSKI), 1884, A., 1176.
- p*-Hydroxyphenylacetic acid** (SALKOWSKI), 1884, A., 1176.
derivatives of (SALKOWSKI), 1889, A., 1173.
- α -Hydroxyphenylacetic acid.** See Mandelic acid.
- Hydroxyphenylacetimidoether and its hydrochloride** (BEYER), 1884, A., 65; 1885, A., 983.
- Hydroxyphenylacetoneitrile, acetyl-derivative of** (MICHAEL and JEANPRÉTRE), 1892, A., 1088.
imidoethers of (PINNER), 1891, A., 62.
- Hydroxyphenylacridine** (HESS and BERNTHSEN), 1885, A., 801; (BESTHORN and CURTMAN), 1891, A., 1234.
- Hydroxyphenylacrylic acid.** See *p*-Coumaric acid.
- α -Hydroxyphenylacrylic acid** (PLÜCHL), 1884, A., 605.
- p*-Hydroxyphenylalanine** (ERLENMEYER and LIPP), 1883, A., 994.
- o*-Hydroxyphenylallylthiocarbamide** (V. CHELMICKI), 1891, A., 52.
- Hydroxyphenylamidoacetic acid and derivatives** (VATER), 1884, A., 1144.
- Hydroxyphenylbenzenyl-naphthylendiamine** (FISCHER), 1892, A., 1472.
- 6-Hydroxy-4-phenyl-2-benzyl-*m*-diazine and 6-hydroxy-2-phenyl-5-benzyl-4-methyl-*m*-diazine** (PINNER), 1889, A., 1008.
- γ -Hydroxyphenylbutyramide** (FITTIG and MOERIN), 1890, A., 890.
- Hydroxy- α -phenylbutyric acid** (JAYNE), 1883, A., 473.
- α -Hydroxy- γ -phenylbutyric acid, γ -bromo-** (BIEDERMANN), 1892, A., 471.
- α -Hydroxyphenylisobutyric acid, β -bromo-** (KÖRNER), 1888, A., 368; 1889, A., 372.
- Hydroxyphenylbutyrolactone** (FITTIG), 1888, A., 595; (FITTIG and OBERMÜLLER), 1892, A., 986.
- α -Hydroxy- γ -phenylbutyrolactone** (BIEDERMANN), 1892, A., 472.
- α -Hydroxy- γ -phenylbutyronitrile, dibromo-** (FISCHER and STEWART), 1892, A., 1447.
- Hydroxyphenylcarbamide** (TRAUBE), 1889, A., 394; (V. DER KALL), 1891, A., 1222.
- Hydroxyphenylcarbamides, *o*- and *p*-** (KALCKHOFF), 1883, A., 734, 735.
- o*-Hydroxy- α -phenyleinechonic acid** (DOEBNER), 1889, A., 410.
- α -Hydroxyphenylcrotonic acid** (PEINE), 1884, A., 1344; (TIEMANN), 1892, A., 471.
bromo- (FISCHER and STEWART), 1892, A., 1447.
- α -Hydroxyphenylcrotonitrile** (PEINE), 1884, A., 1344.
- 6-Hydroxy-2-phenyl-*m*-diazine-4-carboxylbenzamidine** (PINNER), 1890, A., 69.
- 6-Hydroxy-2-phenyl-*m*-diazine-4-carboxylic acid and amide** (PINNER), 1889, A., 1009.
- 6-Hydroxy-5-phenyl-2:4-dibenzyl-*m*-diazine** (WACHE), 1889, A., 684.
- 2'-Hydroxy-3'-phenylidihydroquinazoline** (PAAL and BODEWIG), 1891, A., 944.
- 6-Hydroxy-2-phenyl-4:5-dimethyl-*m*-diazine** (PINNER), 1889, A., 1008.
- o*-2-Hydroxyphenyl-4:5-dimethylglyoxaline** (WADSWORTH), 1890, T., 10.
- m*-4-Hydroxyphenyl-2:6-dimethylpyridine** (LEPETIT), 1887, A., 1053.
- 1-*o*-Hydroxyphenyl-2:5-dimethylsuccinic acid** (FITTIG and BROWN), 1890, A., 777.
- 1-*o*-Hydroxyphenyl-2:5-diphenylpyrrolidine** (PAAL and BRAIKOFF), 1890, A., 264.
- Hydroxyphenylethenylamidine and its hydrochloride** (BEYER), 1884, A., 65.
- Hydroxyphenylethenylamidoxime and its derivatives** (GROSS), 1885, A., 898, 1218.
- β -Hydroxyphenylethyl methyl ketone, *m*-chloro-*o*-nitro-** (EICHENGRUN and EINHORN), 1890, A., 1128; 1891, A., 1099.
- β -Hydroxy- β -phenylethyl- α -isocamylmalonic acid** (PAAL and HUFFMANN), 1890, A., 1101.
- Hydroxyphenylethyltrichloramidoethane** (BOESNECK), 1888, A., 588.
- 6-Hydroxy-4-phenyl-2-ethyl-*m*-diazine** (PINNER), 1889, A., 1007.
- Hydroxy- β -phenyl- α -ethylpropionic acid** (PERKIN and STENHOUSE), 1891, T., 1009.

- Hydroxy-2-phenylethylpyridine** (*hydroxy- α -stilbazoline*) (BUTTER), 1890, A., 1439.
- Hydroxyphenylformamidine** (COMSTOCK and CLAPP), 1892, A., 708.
- o*-Hydroxyphenylglyoxylic acid** (v. BAeyer and FRITSCH), 1884, A., 1021.
- Hydroxyphenylhexoic acid** (ERDMANN), 1890, A., 377.
- Hydroxyphenylhydrindone** and its hydrazone (v. MILLER and ROHDE), 1892, A., 1221.
- Hydroxyphenylhydrocoumarin** (LIEBERMANN and HARTMANN), 1891, A., 1484.
- and its isomerides (LIEBERMANN and HARTMANN), 1892, A., 849.
- 2'-Hydroxyphenylhydroquinoline**. See Phenylhydrocarbostyryl.
- 6-Hydroxy-4-phenyl-2-hydroxybenzyl-*m*-diazine** (PINNER), 1891, A., 68.
- 6-Hydroxy-4-phenyl-2-hydroxyisopropyl-*m*-diazine** (PINNER), 1890, A., 70.
- p*-Hydroxy-2'-phenyl-4-hydroxyquinoline** (WEIDEL and v. GEORGEVICS), 1888, A., 967.
- Hydroxyphenylic anthranilate** (v. MEYER and BELLMANN), 1886, A., 358.
- sulphide (TASSINARI), 1887, A., 807.
- disulphide (LEUCKART), 1890, A., 604.
- and its compounds (HAFFINGER), 1883, A., 988.
- oxidation of the methyl ether of (HAFFINGER), 1883, A., 989.
- thio- (LEUCKART), 1890, A., 604.
- p*-Hydroxyphenylimidomethylene ethylenic disulphide** (MIOLATI), 1891, A., 895.
- 2'-*p*-Hydroxyphenylindazine** (PAAL), 1891, A., 724.
- o*-Hydroxyphenyllactic acid** (*salicyllactic acid*) (PLOCHE and WOLFRUM), 1885, A., 899.
- p*-Hydroxyphenyllactic acid** (ERLENMEYER and LIPP), 1883, A., 993.
- α -*m*-Hydroxyphenyl-*p*-methoxy-hydroquinoline and -quinoline** (v. MILLER and KINKELIN), 1887, A., 979, 978.
- Hydroxyphenylmethylamidotrichloroethane** and its derivatives (BOESSENCK), 1888, A., 587.
- Hydroxyphenylmethylisocrotonic acid** (FITTIG), 1890, A., 584; (FITTIG and BROWN), 1890, A., 778.
- 4-Hydroxy-2-phenyl-6-methyl-*m*-diazine**, derivatives of (PINNER), 1886, A., 46.
- diamido- (PINNER), 1887, A., 1054.
- 4-Hydroxy-2-phenyl-6-methyl-*m*-diazine**, 5-bromo- (PINNER), 1887, A., 1053.
- 6-Hydroxy-2-phenyl-4-methyl-*m*-diazine** (PINNER), 1885, A., 751; 1889, A., 1008; 1891, A., 468.
- 6-Hydroxy-4-phenyl-2-methyl-*m*-diazine** (PINNER), 1889, A., 1007.
- 6-Hydroxy-2-phenyl-4-methyl-*m*-diazine-5-acetic acid** (PINNER), 1890, A., 69.
- 6-Hydroxy-2-phenyl-4-methyl-*m*-diazine-5-propionic acid** (PINNER), 1890, A., 70.
- 6-Hydroxy-2-phenyl-4-methyl-5-ethyl-*m*-diazine** (PINNER), 1889, A., 1008.
- 6-Hydroxy-4-phenyl-5-methyl-2-ethyl-*m*-diazine** (SCHWARZE), 1890, A., 1159.
- Hydroxyphenyl-*p*-methylic sulphide** (TASSINARI), 1887, A., 807.
- Hydroxy- β -phenyl- α -methylpropionic acid** (PERKIN and CALMAN), 1886, T., 159; (PERKIN and STENHOUSE), 1891, P., 43.
- Hydroxyphenylmethylpyridazone** (ACH), 1890, A., 71.
- β -Hydroxyphenylmethylpyrotartaric acid**, salts of (FITTIG and LIEBMAN), 1890, A., 776.
- 4'-Hydroxy-2'-phenyl-3-methylquinoline** (JST), 1886, A., 812.
- Hydroxyphenylmethylquinoxaline** (HINSBERG), 1885, A., 909.
- β -Hydroxyphenyl- α -naphthylamine**, $\alpha\beta$ -dichloro- (ZINKE and KEGEL), 1889, A., 268.
- 6-Hydroxy-4-phenyl-2- β -naphthyl-*m*-diazine** (PINNER), 1892, A., 1009.
- p*-Hydroxyphenyl-*m*-nitrophenylthiocarbamide** (STEUDEMANN), 1884, A., 307.
- Hydroxyphenylphthalamic acid** (PIUTTI), 1886, A., 1027.
- p*-Hydroxyphenylphthalamide** (PIUTTI), 1886, A., 1026.
- Hydroxyphenylipivalic acid**. See β -Hydroxyphenylvaleric acid.
- β -Hydroxyphenylpropaldehyde** (*phenyl- β -lactic aldehyde*), *m*-chloro-*o*-nitro- (EICHENGRUN and EINHORN), 1891, A., 1100.
- o*-nitro- (v. BAeyer and DREWSEN), 1884, A., 58.
- m*-nitro- (GÖHRING), 1885, A., 792.
- p*-nitro- compound of, with aldehyde, (GÖHRING), 1885, A., 527.
- β -Hydroxyphenylpropionamide**, *m*-chloro-*o*-nitro- (EICHENGRUN and EINHORN), 1890, A., 1127; 1891, A., 1100.

- p*-Hydroxy- α -phenylpropionic acid (*phloreolic acid*), artificial formation of (TRINIUS), 1885, A., 529.
- Hydroxy- β -phenylpropionic acids, *o*-, *m*- and *p*-. See Hydrocoumaric acids.
- α -Hydroxyphenylpropionic acid. See Phenyl- α -lactic acid.
- β -Hydroxyphenylpropionic acid (*phenyl- β -lactic acid*), formation of, from ethylic benzoylacetate (PERKIN), 1885, T., 254.
- bromo- (ERLENMEYER), 1883, A., 196; 1891, A., 1482.
- m*-chloro-*o*-nitro- (EICHENGRÜN and EINHORN), 1890, A., 1127; 1891, A., 1099.
- α -iodo- (ERLENMEYER and ROSENHEK), 1887, A., 45.
- o*-nitro- (v. BAEYER and DREWSEN), 1884, A., 58; (EINHORN), 1884, A., 66.
- alcohol of (CALM), 1883, A., 341.
- β -lactone of (EINHORN), 1884, A., 65.
- m*-nitro-, lactone of (PRAUSNITZ), 1884, A., 1175.
- p*-nitro- and its ethyl and methyl derivatives (BASLER), 1884, A., 604.
- β -lactone of (BASLER), 1884, A., 604.
- o*-, *m*- and *p*-nitro-, etherification of (EINHORN and PRAUSNITZ), 1884, A., 1351.
- β -Hydroxyphenylpropionanilide (*phenyl- β -lactanilide*), *p*-nitro- (BASLER), 1884, A., 1173.
- β -Hydroxyphenylpropyl ketone, *m*-chloro-*o*-nitro- (EICHENGRÜN and EINHORN), 1891, A., 1098.
- β -Hydroxyphenylpropyl methyl ketone and its derivatives (v. BAEYER and DREWSEN), 1883, A., 341; (v. BAEYER and BECKER), 1883, A., 1120; (EICHENGRÜN and EINHORN), 1890, A., 1128; 1891, A., 1099.
- Hydroxyphenylpyrazoline. See Phenylpyrazolone.
- 2-Hydroxy-phenyl- γ -pyridone, 3:5-*di*-chloro-, and its carboxylic acid (ZINCKE), 1890, A., 964; (ZINCKE and FUCHS), 1892, A., 449, 448.
- Hydroxyphenylpyrotartaric acid (*phenylitamic acid*), *m*- and *p*-nitro-, and barium salts of (SALOMONSON), 1888, A., 480.
- 2'-*o*-Hydroxyphenylquinoline (*phenolquinoline*) (DORBNER), 1889, A., 410.
- 2'-*m*-Hydroxyphenylquinoline (*phenolquinoline*), and its salts (v. MILLER and KINKELIN), 1885, A., 1145.
- 2'-*p*-Hydroxyphenylquinoline (*phenolquinoline*) (WEIDEL), 1887, A., 847.
- 3-Hydroxy-2'-phenylquinoline, *p*-amido- (WEIDEL and v. GEORGIEVICS), 1888, A., 967.
- 4'-Hydroxy-2'-phenylquinoline (JUST), 1886, A., 811; (KNORR), 1888, A., 1113.
- synthesis of (CONRAD and LIMPACH), 1888, A., 505.
- 4'-Hydroxyphenylquinolines, α - and β - (KOENIGS and MAI), 1887, A., 599.
- 4'-Hydroxy-2'-phenylquinoline-3'-carboxylic acid, and its ethyl salt (JUST), 1886, A., 161, 811.
- α -Hydroxy- α - and β -phenylsuccinic acids. See α - and β -Phenylmalic acids.
- Hydroxyphenylsulphonic acid. See Phenolsulphonic acid.
- Hydroxy-2'-phenyltetrahydroquinoline (WEIDEL), 1887, A., 848.
- μ -Hydroxy- α -phenylthiazole (ARAPIDES), 1889, A., 413.
- chloro- (SCHATZMANN), 1891, A., 745.
- Hydroxyphenylthiocarbamide (FISCHER), 1889, A., 1164; (TIEMANN), 1889, A., 1165; (VOLTMER), 1890, A., 1126; 1891, A., 558; (v. DER KALL), 1891, A., 1222.
- p*-Hydroxyphenylthiocarbamide (KALCKHOFF), 1883, A., 735.
- 3-Hydroxyphenyltoluenesulphonic acid, 4:4'-*di*amido- (WEINBERG), 1888, A., 285.
- m*-Hydroxyphenyltolylamine (ZEGA and BUCH), 1886, A., 873.
- Hydroxyphenyl-*o*-tolylamines, *m*- and *p*- (PHILIP), 1886, A., 942, 941.
- m*-Hydroxyphenyl-*p*-tolylamine, nitroso- (HATSCHEK and ZEGA), 1886, A., 455.
- Hydroxyphenyl-*p*-tolylamines, *m*- and *p*-, and their derivatives (HATSCHEK and ZEGA), 1886, A., 455.
- 6-Hydroxy-4-phenyl-2-*p*-tolyl-*m*-diazine (PINNER), 1891, A., 470.
- Hydroxyphenyltolylethanes, *o*- and *m*- (KOENIGS and CARL), 1892, A., 446.
- Hydroxyphenyltriphtalamie acid (PIUTTI), 1886, A., 1027.
- β -Hydroxyphenylvaleric acid (*hydroxyphenylpicric acid*) (FITTIG and JAYNE), 1883, A., 471.
- and its derivatives (OTT), 1885, A., 663.
- γ -Hydroxyphenylvaleric acid (FITTIG and STERN), 1892, A., 988.
- γ -Hydroxyphenylisovaleric acid, salts of (FITTIG and LIEBMAN), 1890, A., 776.
- Hydroxyphenylvalerolactone (FITTIG and MAYER), 1892, A., 986.

- Hydroxyphosphinic acids** (FOSSEK), 1885, A., 504; 1886, A., 529.
- Hydroxyphosphinous acids** (VILLE), 1890, A., 618.
- Hydroxyisophthalaldehydes**, α - and β - (VOSWINCKEL), 1883, A., 190.
- Hydroxyphthalanilide** (PIUTTI), 1886, A., 1026.
- 1:2:3-Hydroxyphthalic acid** (JACOBSEN), 1883, A., 1124; (MILLER), 1884, A., 1177; (STOKES), 1885, A., 540. *dinitro- (juglonic acid)* (BERNHSEN and SEMPER), 1885, A., 548.
- 1:3:4-Hydroxyphthalic acid** (GRAEBE), 1885, A., 902; (GRAEBE and REE), 1886, T., 522; P., 211.
- Hydroxyisophthalic acid** (VOSWINCKEL), 1883, A., 190.
- β -Hydroxyphthalide** (GRAEBE and REE), 1886, T., 525.
- β -Hydroxyphthalimide** (GRAEBE and REE), 1886, T., 524.
- β -Hydroxy- β -phthalimidoethylsulfide** (GABRIEL), 1892, A., 130.
- p -Hydroxypiazthiole** (AUTENRIETH and HINSBERG), 1892, A., 734.
- α -Hydroxypicolinic acid** (α -hydroxypyridinecarboxylic acid), and its salts (OST), 1883, A., 795. *trichloro-* (OST), 1883, A., 795.
- β -Hydroxypicolinic acid** (β -hydroxypyridinecarboxylic acid) (OST), 1883, A., 795; 1885, A., 49. *chloro-* [β -acid] (OST), 1883, A., 795. *chloro-* [γ -acid] (SEYFFERTII), 1887, A., 158.
- γ -Hydroxypicolinic acid and chloro-** (BEILMANN), 1884, A., 840.
- Hydroxypimelic acid** (SCHLEICHER), 1892, A., 428.
- 6-Hydroxy-2-pipecoline** (DUNZEL), 1889, A., 904.
- Hydroxypiperhydronic acid** (WEINSTEIN), 1885, A., 664.
- Hydroxypiperic acids**, α - and β -, oxidation of (REGEL), 1887, A., 488.
- 2-Hydroxypiperidine** (WOLFFENSTEIN), 1892, A., 1485.
- Hydroxypiperohydrolactone** (REGEL), 1887, A., 488.
- β -Hydroxypiperonylethyl methyl ketone** (*piperonyllactyl methyl ketone*), and bromo- (OECKER), 1891, A., 1476.
- Hydroxypipitzahoic acid**. See **Hydroxyperezone**.
- Hydroxypropamidine salts** (PINNER), 1891, A., 63.
- α -Hydroxypropenylamidoxime**, β -trichloro- (RICHTER), 1892, A., 321.
- Hydroxypropenylbenzoic acid** (η -propenylsalicylic acid) (HEYMANN and KOENIGS), 1887, A., 241.
- α -Hydroxypropenylethenylazoxime**, β -trichloro- (RICHTER), 1892, A., 321.
- α -Hydroxypropionic acid**. See **Lactic acid**.
- β -Hydroxypropionic acid**. See **Hydracrylic acid**.
- Hydroxypropionitrile**, imidoethers of (PINNER), 1891, A., 62.
- ω -Hydroxypropyl phenyl ketone** (PERKIN), 1885, T., 844.
- β -Hydroxypropylacridine**, ω -trichloro- (*methylacridinechloral*) (BERNTSEN and MUEHLERT), 1887, A., 849.
- α -Hydroxypropylamine** (*amidoisopropyl alcohol*) (LIEBERMANN and PAAL), 1883, A., 909.
- β -Hydroxypropylamine**, *trichloro-* (FAUCONNIER), 1888, A., 1265.
- γ -Hydroxypropylamine** (GABRIEL and WEINER), 1888, A., 1293.
- Hydroxypropylamine** (LIEBERMANN and PAAL), 1883, A., 910.
- β -Hydroxypropylbenzamide** (HIRSCH), 1890, A., 860.
- 4-Hydroxyisopropylbenzoic acid**, 2-amido- (WIDMAN), 1886, A., 466. action of nitrous acid and of ethylic chloroformate on (WIDMAN), 1884, A., 1022.
- 2:5-dibromo-** (FILETI and BONICONTRO), 1892, A., 604.
- 2-nitro-** (WIDMAN), 1886, A., 466.
- 3-nitro-**, and its derivatives (WIDMAN), 1883, A., 330; 1884, A., 316.
- exo-Hydroxyisopropylbenzoic acid**, 3-amido- (WIDMAN), 1884, A., 317. action of acetic anhydride on (WIDMAN), 1884, A., 302.
- Hydroxypropylcarboxylphenylurethane** (WIDMAN), 1881, A., 1023.
- Hydroxyisopropylidiphenylene ketone-carboxylic acid** (BAMBERGER and HOOKER), 1885, A., 1070.
- Hydroxypropylenepiperidine** (α -*isopetidylalkine*) (LADENBURG), 1891, A., 1119.
- Hydroxypropylhydroxybenzoic acid** (WIDMAN), 1884, A., 1022.
- α -Hydroxy- β -propylidenebutyramide** (JOHANNY), 1891, A., 38.
- Hydroxypropylmalonic acid**, salts of (HJELT), 1883, A., 456.
- Hydroxypropylmethylaniline** (*phenyl-methylpropylalkine*) (LAUN), 1884, A., 1011.

- Hydroxypropylpiperidine** (*piperpropylalkine*), and its derivatives (LATX), 1884, A., 1054; (ENGLER and BAUER), 1891, A., 1505.
- α -Hydroxypropylpiperidine.** See Conhydrin.
- β -Hydroxypropylpiperidine** (*α -pipercolylmethylalkine*) (LADENBURG), 1890, A., 68.
- Hydroxypropylphosphinic acid** (FOSSEK), 1886, A., 530.
- Hydroxypropylphthalamic acid** (GABRIEL and LAUER), 1890, A., 472.
- γ -Hydroxypropylphthalimide** (GABRIEL and LAUER), 1890, A., 472; (LAUER), 1890, A., 1089.
- Hydroxypropylphthalimide**, nitro- (NEUMANN), 1890, A., 890.
- Hydroxypropylpyridine** [b.p. 213] (ENGLER and BAUER), 1891, A., 1505.
- Hydroxypropylpyridine** (*α -lutidylalkine*) (ALEXANDER), 1890, A., 1447; (LADENBURG), 1891, A., 1119.
- β -Hydroxypropylpyridine** (*α -picolylmethylalkine*) (LADENBURG), 1890, A., 68.
- α -Hydroxypropylpyridine**, *ω -trichloro-* (EINHORN and LIEBRECHT), 1887, A., 845.
- α -Hydroxypropylquinoline**, *trichloro-* (EINHORN), 1886, A., 721.
- 2'-Hydroxy-2-isopropylquinoline** (WIDMANN), 1886, A., 465.
- Hydroxypropylsuccinic acid**, lactone of (HJELT), 1883, A., 656, 971.
- Hydroxy-*p*-isopropylsalicylic acid** (HEYMAN and KOENIGS), 1887, A., 241.
- 2-Hydroxypyridine** (*α -pyridone*) (KOENIGS and KÖRNER), 1884, A., 85; (KOENIGS and GEIGY), 1884, A., 1195; (FEER and KOENIGS), 1886, A., 1044; (V. PECHMANN and BALTZER), 1892, A., 208.
- di*bromo- (KOENIGS and GEIGY), 1884, A., 1195.
- di*chloro- (KOENIGS and GEIGY), 1884, A., 1369.
- 3:5-*di*ido- (PREIFFER), 1887, A., 845.
- 3-Hydroxypyridine** (FISCHER and RENOUF), 1884, A., 1050; (KOENIGS and GEIGY), 1884, A., 1369.
- from pyridinesulphonic acid, derivatives of (FISCHER and RENOUF), 1884, A., 1370.
- di*bromo- and its salts (FISCHER), 1884, A., 1370.
- 4-Hydroxypyridine** (*chelamide*) (LERCH), 1885, A., 46; (HATTINGER and LIEBEN), 1885, A., 811, 966.
- 4-Hydroxypyridine** (*chelamide*) from β -hydroxypicolinic acid (OST), 1885, A., 50.
- and its *di*idromo-derivative (LIEBEN and HATTINGER), 1883, A., 871.
- 6-Hydroxypyridine**, 2:3:5-*tri*chloro-4-amido- (STOKES and V. PECHMANN), 1887, A., 156.
- Hydroxypyridine**, amido- [m.p. 214°], and its derivatives (KRIPPENDORFF), 1885, A., 1243.
- Hydroxypyridine-bases**, synthesis of (LADENBURG), 1890, A., 67; 1891, A., 1092.
- α -Hydroxypyridinecarboxylic acid** (*α -hydroxypicolinic acid*) and its salts (OST), 1883, A., 795.
- di*chloro- (OST), 1883, A., 795.
- β -Hydroxypyridinecarboxylic acid** (*β -hydroxypicolinic acid*) (OST), 1883, A., 795; 1885, A., 49.
- chloro- (OST), 1883, A., 795.
- 2-Hydroxypyridine-3-carboxylic acid** (*2-hydroxyquinoline acid*) (WEIDEL and STRACHE), 1886, A., 951.
- 6-Hydroxypyridine-3-carboxylic acid** (*6-hydroxynicotinic acid*), and its derivatives (KOENIGS and GEIGY), 1884, A., 1195; (V. PECHMANN and WELSH), 1885, T., 150; A., 174; (V. PECHMANN), 1885, A., 176.
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- 2-Hydroxypyridine-3:4-dicarboxylic acid** (*α -hydroxyquinolonecaronic acid*) (WEIDEL and STRACHE), 1886, A., 951.
- 4-Hydroxypyridine-2:6-dicarboxylic acid.** See Ammonchelidonic acid.
- 6-Hydroxypyridine-2:3-dicarboxylic acid** (*hydroxyquinolinic acid*), and its salts (KOENIGS and KÖRNER), 1884, A., 85; (KOENIGS and GEIGY), 1884, A., 1195; (FEER and KOENIGS), 1885, A., 1236.
- 3-Hydroxypyridyl-2-butyric acid.** See Morrhucic acid.
- Hydroxyprotarctic acid** (*itamic acid*) and its salts (BEEH), 1883, A., 457.
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- Hydroxypyruvic acid** (WILL), 1891, A., 542.
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- Hydroxyquinoline.** See Hydroxy-2'-methylquinoline.
- Hydroxyquinhydrone** (BARTH and SCHREDER), 1885, A., 520.

- Hydroxyquinol**, the third isomeric trihydroxybenzene (BARTH and SCHREDER), 1883, A., 987; 1885, A., 520.
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- Hydroxyquinoline** (*kynurin*) (SKRAUP), 1890, A., 174.
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- Hydroxyquinoline, 3'-amido-** [m. p. 109°-110°], and the action of its diazo-salts on phenols and tertiary bases (RIEMERSCHMIED), 1883, A., 1148.
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- 1-Hydroxyquinoline** (SKRAUP), 1883, A., 92; (HERZFELD), 1884, A., 1199; (FISCHER and RENOUF), 1884, A., 1370; (KOHN), 1886, T., 500.
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- 1-Hydroxyquinoline, bromo-** [m. p. 140°] (SCHMITT and ENGELMANN), 1888, A., 67.
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- 2-Hydroxyquinoline** (FISCHER), 1883, A., 91; (SKRAUP), 1883, A., 95;
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- 2-Hydroxyquinoline derivatives** (FISCHER), 1883, A., 91; (SKRAUP), 1883, A., 95.
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- 3'-Hydroxyquinoline and its derivatives** (RIEMERSCHMIED), 1883, A., 1117.
- 4-Hydroxyquinoline** (CLAUS), 1888, A., 729.
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- Hydroxyisoquinoline, mono- and di-**chloro- (RUGHIMER), 1886, A., 702.
- Hydroxyisoquinolines and their derivatives** (CLAUS, HOWITZ, MASSAN and RAPS), 1892, A., 877.
- Hydroxyquinolines, preparation of** (ANON.), 1884, A., 945.
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- 1-Hydroxyquinolinecarbothionylic acid** (LIPPMANN and FLEISSNER), 1888, A., 1092.
- Hydroxyquinolinecarboxylic acid** (*kynurenic acid*; *kynurenic acid*), oxidation of (KRETSCHY), 1883, A., 674.

- 1-Hydroxyquinolinecarboxylic acid [m.p. 250°] (LIPPMANN and FLEISSNER), 1887, A., 63, 1119; 1888, A., 1092.
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- 1-Hydroxyquinolinecarboxylic acid [m.p. 235°] (SCHMITT and ENGELMANN), 1887, A., 738; 1888, A., 66.
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- 2'-Hydroxyquinoline-3'-carboxylic acid (*carbostyrylcarboxylic acid*) (FRIEDLÄNDER and GÖHRING), 1884, A., 1020.
- 2-Hydroxyquinoline-4'-(β)-carboxylic acid (*xanthoquinic acid*) (SKRATCP), 1884, A., 86.
- 2'-Hydroxyquinoline-4'-carboxylic acid (*hydroxycinchoninic acid*) (KÖNIGS and KÖRNER), 1884, A., 84.
- 3-Hydroxyquinolinecarboxylic acid (LIPPMANN and FLEISSNER), 1887, A., 1120; (SCHMITT and ALTSCHUL), 1888, A., 67.
- 1-Hydroxyquinolinedisulphonic acid (LIPPMANN and FLEISSNER), 1890, A., 268; (CLAUS and POSSELT), 1890, A., 523.
- 3-Hydroxyquinoline-1'-methylbetaine (CLAUS and HOWITZ), 1891, A., 1252.
- 3-Hydroxyquinoline-1:4-quinone, 2-chloro-, and its anilide (ZINCKE), 1891, A., 1251.
- 1-Hydroxyquinolinesulphonic acid (LIPPMANN and FLEISSNER), 1890, A., 268.
- 1-Hydroxyquinoline-4-sulphonic acid (CLAUS and POSSELT), 1890, A., 522.
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- 2'-Hydroxyquinolinesulphonic acid (*carbostyrylsulphonic acid*) (LA COSTE and VALEUR), 1886, A., 629; 1887, A., 379.
- 3-Hydroxyquinolinesulphonic acid (CLAUS and POSSELT), 1890, A., 523.
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- 3'-Hydroxyquinolinesulphonic acid (LA COSTE and VALEUR), 1886, A., 629; 1888, A., 297.
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- Hydroxyquinolinic acid (*6-hydroxy- α -pyridine-2:3-dicarboxylic acid*), and its salts (KÖNIGS and KÖRNER), 1884, A., 85; (KÖRNIG and GELLY), 1884, A., 1193; (FEER and KÖRNIGS), 1885, A., 1236.
- Hydroxyquinone, *tri*bromo- (BARTH and SCHREIBER), 1885, A., 520.
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- 3-Hydroxyquinoxaline (AUTENRIETH and HINSBERG), 1892, A., 732.
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- Hydroxyresazoin (EBELICH), 1888, A., 145.
- Hydroxysebacic acid (CLAUS and STEINKAULER), 1888, A., 134.
- α -Hydroxystearic acid (HELL and SADOWSKY), 1891, A., 1396.
- β -Hydroxystearic acid (SAYTZEFF), 1886, A., 140; (M., C. and A. SAYTZEFF), 1887, A., 30; (GEITEL), 1888, A., 578.
- γ -Hydroxystearic acid (GEITEL), 1888, A., 578.
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- p*-Hydroxystyrolene (BERNTSEN and BENDER), 1883, A., 70.
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- Hydroxystyrylhydantoin bromide (PINNER and SPILKER), 1889, A., 706.
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- Hydroxysuberic acid and its salts (HELL and REMPEL), 1885, A., 756; (HEMPEL), 1885, A., 757.
- p*-Hydroxy- α -sulphobenzoic acid (HEDRICK), 1888, A., 280; (PINANELLO), 1889, A., 1063.
- p*-Hydroxy-*m*-sulphobenzoic acid and its salts (KLEPL), 1884, A., 446.
- 1-Hydroxy-4-sulpho- β -naphthoic acid (KÖNIG), 1889, A., 719; 1890, A., 636.

- Hydroxysulphonebenzide** (*dihydroxydiphenylsulphon*) (TASSINARI), 1889, A., 245.
- Hydroxyterebic acid, salts of** (ROSER), 1884, A., 459.
- Hydroxyterephthalic acid, reduction products of** (V. BAYER and TUTEIN), 1889, A., 1180.
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- 1-Hydroxytetrahydroquinoline, preparation of methyl and ethyl derivatives of** (ANON.), 1883, A., 871.
- 3-Hydroxytetrahydroquinoline, bromo-, hydrochloride** (SRPEK), 1890, A., 177.
- 1-Hydroxytetrahydroquinolinecarboxylic acid** (LIPPMANN and FLEISNER), 1887, A., 1119.
- Hydroxytetrahydroterephthalic acid** (V. BAYER and TUTEIN), 1889, A., 1180.
- Hydroxytetramethylenecarboxylic acid** (PERKIN and SINCLAIR), 1892, T., 44.
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- Hydroxytetramethylpropylenediamine** (BEREND), 1884, A., 1114.
- 4'-Hydroxy-1:3:4:2'-tetramethylquinoline** (CONRAD and LIMPACH), 1888, A., 504.
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- Hydroxytetrethylpropylenediamine** (BEREND), 1884, A., 1114.
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- o-Hydroxythiocarbanilide** (KALCKHOFF), 1883, A., 1110.
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- Hydroxythiotoluene** (TRUHLAR), 1887, A., 473.
- Hydroxythymophenindulone** (KEHRMANN and MESSINGER), 1891, A., 747.
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- Hydroxythymoquinoneimide, amido-** (ANSCHÜTZ and LEATHER), 1886, T., 725.
- 2-Hydroxy-m-tolenylamidoxime** (*o-homosalicenylamidoxime*) (PASCHEN), 1892, A., 320.
- 4-Hydroxy-m-tolenylamidoxime** (*p-homosalicenylamidoxime*) (GOLDBECK), 1892, A., 319.
- 6-Hydroxy-m-tolenylamidoxime** (*o-homo-p-hydroxybenzenylamidoxime*) (PASCHEN), 1892, A., 320.
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- 2-Hydroxy-m-tolualdehyde** (*o-homosalicylaldehyde*) and oxime of (PASCHEN), 1892, A., 320.
- 6-Hydroxy-m-tolualdehyde** (*o-homo-p-hydroxybenzylaldehyde*) and oxime and phenylhydrazone of (PASCHEN), 1892, A., 320.
- 4-Hydroxy-m-tolualdoxime and -toluamide** (*p-homo-salicylaldoxime* and *-amide*) (GOLDBECK), 1892, A., 318.
- Hydroxytoluencarbostryl.** See Hydroxymethylcarbostryl.
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- o-Hydroxytoluic acid** (*o-hydroxymethylbenzoic acid*) (HJELT), 1892, A., 715.
- rate of transformation of, into phthalide** (COLLAN), 1892, A., 1270.
- 5-nitro-** (HÖNIG), 1886, A., 242.
- p-Hydroxytoluic acid, heats of combustion and formation of** (STOHMANN, KLEBER and LANGBEIN), 1889, A., 1096.
- Hydroxy-o-toluic acids, 5- and 6-** (JACOBSEN), 1883, A., 1124.
- 4-Hydroxy-m-toluic acid** (*p-homosalicylic acid; α-cresotic acid*), occurrence of, in artificial salicylic acid (DUNSTAN and BLOCH), 1891, A., 454.
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- 5-Hydroxy-3-toluic acid, conversion of ethylic acetoneoxalate into** (CLAISEN), 1890, A., 364.
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- 2-Hydroxy-p-toluic acid** (*m-hydroxymethylbenzoic acid*) (WEINREICH), 1887, A., 669.
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ω -Hydroxytolylcarbamide (SÖDERBAUM and WIDMAN), 1889, A., 972.

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ω -Hydroxytolylethylthiocarbamide (SÖDERBAUM and WIDMAN), 1890, A., 178.

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o-Hydroxytrimethylbenzaldehyde (AUWERS), 1885, A., 380.

6-Hydroxy-2:4:5-trimethyl-*m*-diazine (PINNER), 1889, A., 1006.

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p-Hydroxytruxillie acid (LIEBERMANN and BERGAMI), 1889, A., 699.

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γ -Hydroxyvaleramide (NEUGEBAUER), 1885, A., 651; (FITTIG and RANCK), 1890, A., 879.

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n-Hydroxyvaleric acid and its salts (MENOZZI), 1884, A., 1122; (JUSLIN), 1885, A., 137.

γ -Hydroxyvaleric acid, transformation of, into its lactone (OSTWALD), 1891, A., 1151; (HENRY), 1892, A., 1303.

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- Hyperite**, porphyritic, from California (v. CHRISTSCHOFF), 1886, A., 780.
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***p*-Methoxybenzenylazoximebenzenyl** (MILLER), 1889, A., 254.
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***o*-Methoxybenzoylacetic acid** (TAHARA), 1892, A., 844.
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- o*-Methoxycinnamic acid, derivatives of (SCHNELL, 1884, A., 1165; 1887, A., 140.
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- p*-Methoxynicotinic acid, constitution of (V. PECHMANN), 1885, A., 558.
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- p*-Methoxyphenoxy-cinnamic acid (VALENTINI), 1885, A., 264.
- p*-Methoxyphenylacetamide- and -acetonitrile (SALKOWSKI), 1889, A., 1173.
- p*-Methoxyphenylacetic acid (SALKOWSKI), 1884, A., 1176.
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- p*-Methoxyphenylacryl methyl ketone (EINHORN and GRABFIELD), 1888, A., 477.
- p*-Methoxyphenylacrylic acid (EINHORN and GRABFIELD), 1888, A., 477.
- m*-Methoxyphenyl- β -bromopropionic acid, *o*-nitro- (EICHENGRÜN and EINHORN), 1890, A., 1127.
- o*-Methoxy- α -phenylcinchoninic acid (DOEBNER), 1889, A., 411.
- 1-*p*-Methoxyphenyl-2:3-dimethylpyrazolone (ALTSCHUL), 1892, A., 1082.
- p*-Methoxyphenylethylene, *m*-nitro- (EINHORN and GRABFIELD), 1888, A., 477.
- p*-Methoxyphenylglyoxylic acid (GARELLI), 1891, A., 711.
- p*-Methoxyphenylhydrazine (ALTSCHUL), 1892, A., 1082.
- p*-Methoxyphenylhydrazinesulphonic acid, salts of (ALTSCHUL), 1892, A., 1081.
- 3-Methoxy-2'-phenylhydroquinoline, 2-amido- (V. MILLER and KINKELIN), 1887, A., 978.
- m*-Methoxyphenyllactamide, *o*-nitro- (EICHENGRÜN and EINHORN), 1890, A., 1128.
- m*-Methoxyphenyllactic acid, *o*-nitro- (EICHENGRÜN and EINHORN), 1890, A., 1127; 1891, A., 1100.
- 4-Methoxy-1-phenyl-3-methylphenylamine (PHILIP and CALM), 1885, A., 155.
- α -Methoxy-*p*-phenyl- β -methyl- μ -thio-methylglyoxaline (MARCKWALD, NEUMARK and STELZNER), 1892, A., 152.
- p*-Methoxyphenyloximidoacetic acid (GARELLI), 1892, A., 328.
- o*-Methoxyphenylphenamidoacetic acid, nitrile of (VOSWINCKEL), 1883, A., 190.
- α -*o*-Methoxyphenylaldehydephenyl-naphthotriazine (MELDOLA and FORSTER), 1891, T., 697.
- p*-Methoxyphenylpropionic acid, dibromo-*m*-nitro- (EINHORN and GRABFIELD), 1888, A., 478.
- 1-Methoxy-2'-phenylquinoline (DOEBNER), 1889, A., 411.
- 3-Methoxy-2'-phenylquinoline (DOEBNER), 1889, A., 411.
- 2-nitro-, and its derivatives (V. MILLER and KINKELIN), 1887, A., 978.
- Methoxyphenylthiocarbamide (TIE-MANN), 1889, A., 1165; (VOLTMER), 1890, A., 1126; 1891, A., 558.
- p*-Methoxyphenyl-*p*-tolylmethylamine (HATSCHEK and ZERA), 1886, A., 457.
- Methoxyisopropylstilbene (MAGNANI), 1886, A., 468.
- 2-Methoxypyridine (V. PECHMANN and BALTZER), 1892, A., 209.
- 4-Methoxypyridine (HATTINGER and LIEBEN), 1885, A., 811.
- Methoxyquininemethiodide (GRIMATX), 1892, A., 1363.
- Methoxyquinol (WILL), 1888, A., 458; (SCHWEITZER), 1889, A., 390.
- 1-Methoxyquinoline (SKRAUP), 1883, A., 93.
- 2-Methoxyquinoline (FISCHER), 1883, A., 91.
- 3-Methoxyquinoline (VULPIUS), 1885, A., 398; (SKRAUP), 1886, A., 79.
- 1'-Methoxyisoquinoline, 3'-chloro-[m. p. 73°-74°] (GABRIEL), 1887, A., 62.
- 3-Methoxyquinoline-4'-carboxylic acid (*quininic acid*) (SKRAUP), 1884, A., 86.
- 6-Methoxy-2:3-quinolinic acid (FERE and KOENIGS), 1885, A., 1235.
- 1-Methoxyquinolyl-1-hydroxyquinoline methiodide (LIPPMANN and FLEISSNER), 1890, A., 174.
- p*-Methoxyquinolylquinolines (*methoxyquinolylines*), α - and β - (V. MILLER and KINKELIN), 1887, A., 979.
- Methoxyquinone, derivatives of (SCHWEITZER), 1889, A., 389.
- 2-Methoxyquinone (WILL), 1888, A., 458.
- Methoxyquinonedioxime (BEST), 1890, A., 608.
- Methoxysalicylic acid, dibromo- (PERRATONER), 1887, A., 487.
- Methoxysuccinamide (PURDIE and MARSHALL), 1891, T., 470; P., 82.
- Methoxysuccinic acid (BREDT), 1883, A., 176; (PURDIE and MARSHALL), 1891, T., 471; P., 82.
- and its salts, properties of (PURDIE), 1885, T., 863.
- 1-Methoxystyrylpyridine (SCHUFFAN), 1890, A., 1438.
- 3-Methoxytetrahydroquinoline (*tetrahydro-p-quinarnisol*; "thallin") (SKRAUP), 1886, A., 80; (DRAGENDORFF and BLUMENBACH), 1887, A., 871.

- 3-Methoxytetrahydroquinoline** (*tetrahydro-p-quinuinisole*; "thallin"), preparation of (ANON.), 1885, A., 1023.
- physiological action of (PARENTI), 1888, A., 311.
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- α -Methoxy- μ -thiomethoxy- $\mu\beta$ -dimethylglyoxaline** MARKWALD, NEUMARK and STELZNER, 1892, A., 153.
- α -Methoxy- μ -thiomethoxy- β -methyl- ν -o- and - μ -tolylglyoxalines** MARKWALD, NEUMARK and STELZNER, 1892, A., 152.
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- p*-Methoxytoluene** (*tolyl methyl ether*), amido-derivatives of (LIMPACH), 1889, A., 698.
- m*-amido- (LIMPACH), 1889, A., 499.
- 3-bromo-** (SCHALL and DRALLE), 1885, A., 146.
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- iodo-** (SCHALL and DRALLE), 1885, A., 146.
- Methoxytoluenesulphonic acid** (HEFFTER), 1884, A., 454.
- 4-Methoxy-*m*-toluonitrile** (*homomethylsalicylonitrile*) (LIMPACH), 1889, A., 499.
- Methoxytriphenylmethane**, diamido- (MAZZARA and PUSSETTO), 1885, A., 1141.
- Methronene** (ERDMANN), 1885, A., 528.
- Methronic acid** (*methylfurancarboxymethic acid*; *sylvanecarbonylcarboxylic acid*) (FITTIG), 1886, A., 225; (POLONOWSKY), 1888, A., 1067; (FITTIG and HANTZSCH), 1889, A., 126; (v. EYERN), 1889, A., 592.
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- Methyl amyl ketone** (*methylisopropylacetone*) (VAN ROMBURGH), 1887, A., 232.
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- Methyl isoamyl ketone** (SOKOLOFF), 1888, A., 125.
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- Methyl bromopropyl ketone** (LIPP), 1889, A., 844.
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- Methyl isobutenyl ketone** (*mesityl oxide*; *isopropylideneacetone*), magnetic rotatory power of (PERKIN), 1887, P., 98; 1888, T., 586, 591.
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- Methyl butyl ether** (HENRY), 1892, A., 27.
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- Methyl isobutyl ketone** (KIRWSHNOFF), 1888, A., 125; (WAGNER), 1892, A., 36.
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- Methyl sec.-butyl ketone** and its derivatives (WILHELMUS), 1883, A., 966.
- Methyl tert.-butyl ketone** (*pinacolone*), oxidation of (GUTERMANN), 1890, A., 237.
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- Methyl β -butyl pinacone** (WILHELMUS), 1883, A., 966.
- Methyl tetrachlorethyl ether** (MAGNANINI), 1887, A., 28.
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- Methyl chlorovinyl o-diketone**, *dichloro-* (ZINKE and RABINOWITZ), 1891, A., 690.
- Methyl dichlorovinyl ether** (DENARO), 1884, A., 1282.
- Methyl coumaroneketone**. See *o*-Hydroxystyryl methyl ketone.
- Methyl dimethylthienyl ketoxime** (MESSINGER), 1885, A., 1205.
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- Methyl ethyl ketoxime**, action of hydrocyanic acid on (V. MITLER and PLOCHL), 1892, A., 1196.
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- Methyl mercaptides** (KLASON), 1888, A., 356.
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- Methyl propyl ketoxime**, action of phosphoric chloride on (HANTZSCH), 1892, A., 427.
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- Methylacetyl-acetonitrile and -carbinol** (VLADESCO), 1892, A., 810.
- Methylacetylcarbinyl acetate and butyrate** (VLADESCO), 1892, A., 810.
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- Methylacridinechloral** (*ω -trichloro- β -hydroxypropylacridine*) (BERNTSEN and MÜHLERT), 1887, A., 849.
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- Methylacrylic anilide** (BISCHOFF), 1891, A., 828.
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- Methylallylbenzene** (ERRERA), 1885, A., 772.
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- Methylamarine** (CIATON and SCHERBEL), 1886, A., 237.
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- Methylamidobenzamide**, *o*-nitroso- (FINGER), 1888, A., 948.
- o*-Methylamidobenzene**, nitroso- (MEYER), 1886, A., 63.
- p*-Methyl-*o*-amidobenzenylamidoxime** (WEISL), 1890, A., 47.
- 2-Methylamidobenzmethylamide**, 5-nitro- (THIEME), 1891, A., 917.
- Methylamidobenzoic acid** (ZACHARIAS), 1891, A., 913.
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- β -Methylamidocrotonilide** (KNORR and TAUFKIRCH), 1892, A., 705; (BRILL), 1892, A., 730, 1106; (LEDERER), 1892, A., 965.
- Methyl-mono- and -di-amidocyanidines**, dimerchloro- (WEDDIGE), 1886, A., 323, 324.
- Methylamido-*p*-diketohexene**, *pentachloro-* (ANGELI), 1892, A., 449.
- Methyl-*p*-amidodiphenylmethane** (MANN), 1889, A., 261.
- Methylamidoformic chloride** GATTERMANN and SCHMIDT, 1887, A., 358.
- Methylamido- α -hexoic acid**, and its derivatives (Duvillier), 1884, A., 664.
- Methylamido- α -hexoic cyanidine** (Duvillier), 1883, A., 1153.
- Methylamidohydroxybutyric acid** (FELINSKY), 1885, A., 752.
- Methylamidomethoxycyanuric chloride** (V. Hofmann), 1886, A., 40.
- Methylamidomethylnitramidobenzene**, 2:4:6, trinitro- (VAN ROUMBURGH), 1889, A., 1154.
- Methylamidomethylsuccinamic acid** (KORNER and MENOZZI), 1890, A., 870.
- Methylamidomethylthiazole** HANTZSCH and WEBER, 1888, A., 257.
- Methyl- β -amidonaphthylhydroquinoline** (RLIN), 1887, A., 682.
- Methylamidoperezone** MYLIUS, 1885, A., 778.
- Methylamidophenylethans**, nitroso- (HEUMANN and WILENIK), 1887, A., 1039.
- α -Methyl-*m*-amidophenylpropionic acid** (V. MÜLLER and RÜHDE), 1890, A., 1140.
- Methyl-*o*-amidostyrene**, *o*-chloro- (LIPPI), 1885, A., 167.
- Methylamidosuccinamic acid** (KORNER and MENOZZI), 1890, A., 871.
- β -Methyl- μ -amidothiazole** (HUBSCHER), 1891, A., 222.
- α -Methylamidovaleric acid** and its derivatives (MENOZZI and BELLONI), 1887, A., 797.
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- Methylanhydroacetonebenzil** (JAPP and BURTON), 1887, T., 431; P., 32.
- Methylanhydroecgonine methiodide** (EINHORN), 1889, A., 170.
- Methylanilalloxan** (PELLIZZARI), 1888, A., 143, 682.
- Methylanilidoacetamide and its hydrochloride** (SILBERSTEIN), 1885, A., 160.
- Methylanilidoacetic acid, hydrochloride of** (SILBERSTEIN), 1885, A., 160.
- Methylanilidoazotribromobenzene** (SILBERSTEIN), 1883, A., 663.
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- Methylanilidodimethylpyrroline** (KNORR), 1887, A., 276.
- Methylanilidoethylphthalimide** (NEWMAN), 1891, A., 575.
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- Methylaniline** (PICTET), 1890, A., 758.
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- β-Methylanthracene** (ELBS), 1890, A., 511.
- Methylanthracenes, conversion of cinnamene derivatives of aromatic hydrocarbons into** (KRAEMER, SPILKER and EBERHARDT), 1891, A., 207.
- Methylantragallols and their derivatives** (CAHN), 1887, A., 57.
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- Methylantranol, amido-** (ROEMER; ROEMER and LINK), 1883, A., 1137.
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- α-Methylantraquinone** (DIRUKOFF), 1887, A., 965.
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- Methylbenzamide, *o*-chloro-** (GABRIEL), 1887, A., 1038.
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- o*-Methylbenzidine** (HIRSCH), 1891, A., 210.
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- o*-Methylbenzylamine and its salts** (STRASSMANN), 1888, A., 474; (DAMBERGER and MÜLLER), 1889, A., 950.
- m*-Methylbenzylamine** (BRÜMMER), 1888, A., 1295.
- μ*-Methylbenzylamine** (DAMBERGER and LODER), 1887, A., 719; (ZACHSCHIRM), 1888, A., 1077; (HINBERG), 1892, A., 65.
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- s-Methylisobutylthiocarbamide** (HECHT), 1892, A., 702.
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- 1-Methylcarbostyryl** (*o-tolucarbostyryl*), 3'-4'-dichloro- (RUGHEIMER and HOFFMANN), 1886, A., 160.
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- 4-Methylcarbostyryl**, and derivatives (KNORR), 1884, A., 334, 1198; 1887, A., 159; (ANON.), 1884, A., 757; (FISCHER and WITTMACK), 1884, A., 1052.
- reduction of (KNORR and KLOTZ), 1887, A., 278.
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- Methyl- ψ -carbostyryl** and its derivatives (FRIEDLANDER and MÜLLER), 1887, A., 977.
- Methylcarboxyphenylacetic acid** (BEHAL and AUGER), 1890, A., 389.
- Methylcarvoxime** (GOLDSCHMIDT and ZÜRER), 1885, A., 1038.
- Methylchlorallylcarbinol** (GARZAROLLI-THURNLACKH), 1884, A., 1118.
- 2'-Methyltrichlorethylidenequinoline** (EINHORN), 1886, A., 264.
- Methyltrichlorobromazimidobenzene** (ZINCKE and ARZBERGER), 1889, A., 502.
- Methylchloroform**. See triChloroethane.
- Methylchrysoidine** (NÖLTING and STRICKER), 1886, A., 544.
- Methylapocinchonic acid** (COMSTOCK and KOENIGS), 1885, A., 1249.
- Methylapocinchonine** and its hydrochloride (COMSTOCK and KOENIGS), 1885, A., 1248.
- Methylcinchonamine** (HESSE), 1885, A., 66.
- 1'-Methylcinchoninic acid** (v. MILLER), 1891, A., 1097.
- 3'-Methylcinchoninic acid** (v. MILLER), 1890, A., 1325.
- Methylcinnamene**. See Tolyacetylene.
- α -Methylcinnamic acid**. See Phenylcrotonic acid.
- Methylcinnamic acids**. See Tolyacrylic acids.
- Methylcinnamoyldextroecgonine** (DEYKERS and EINHORN), 1891, A., 475.
- Methylcinnolinecarboxylic acid** (WIDMANN), 1884, A., 1022.
- Methylcitraconic acid** (FITZIG and FRANKEL), 1890, A., 585; (BISCHOFF), 1891, A., 1221.
- Methylcocaine** (LIEBERMANN and GIESSEL), 1890, A., 647, 803; (EINHORN and MARQUARDT), 1890, A., 913; (GIESEL), 1890, A., 1011.
- Methylcodeine** and its derivatives (GRIMAUD), 1888, A., 359; (HESSE), 1884, A., 614.
- Methylcolchicine** (JOHANNY and ZEISEL), 1889, A., 282.
- Methylconiine** (PASSON), 1891, A., 1118.
- Methylcopellidine**. See Tetramethylpiperidine.
- Methylcoumaraldehyde** (*methoxycinnamaldehyde*), nitro- (v. MILLER and KINKELIN), 1889, A., 990.
- Methyl-o-coumaric acid** derivatives (SCHNELL), 1884, A., 1165; 1887, A., 140.
- m-amido- (SCHNELL), 1884, A., 1165; 1887, A., 140.
- 3-nitro- (v. MILLER and KINKELIN), 1889, A., 989.
- 5-nitro- (SCHNELL), 1884, A., 1165; 1887, A., 140.
- Methyl-m-coumaric acid** (*methoxycinnamic acid*) (TIEMANN and LUDWIG), 1883, A., 189.
- 6-nitro- (EICHENGRÜN and EINHORN), 1890, A., 1127; 1891, A., 1101.

- Methyl-*p*-coumaric acid** (VALENTINI), 1885, A., 264; MAGNANI, 1886, A., 467.
- n*-Bronide and its derivatives** (EDEL), 1887, A., 1110.
- 3-nitro-** (EINHORN and GRABFELD), 1888, A., 478.
- β -Methylcoumarilamide** (HANTZSCH), 1886, A., 1014.
- β -Methylcoumarilic acid** (HANTZSCH), 1886, A., 707.
- α -Methylcoumarin, thio-** (ALDRINGEN), 1890, A., 624.
- β -Methylcoumarin, and its derivatives** (V. PECHMANN and DUBBERG), 1884, A., 67.
- β -Methylcoumarone** HANTZSCH, 1886, A., 707.
- α -Methylcoumaroxime** ALDRINGEN, 1890, A., 624; 1892, A., 330.
acetate (ALDRINGEN, 1890, A., 624).
- Methyl-*o*-coumarylic alcohol** (HARRIS), 1892, A., 169.
- β -Methylcrotonanilide, derivatives of** BRILL, 1892, A., 1106.
- Methylcrotonic acid.** See Tiglic acid.
- Methylcumazonic acid, and its derivatives** (WIDMAN), 1884, A., 303.
- Methyl- ψ -cumidine** (V. HOFMANN), 1883, A., 324.
- Methylcuminaldoxime** (GOLD-SHMIDT), 1890, A., 1262.
- o*-Methyleyanacetophenone** (HALLER), 1889, A., 874.
- Methyleyanethine** (V. MEYER), 1883, A., 352.
- Methyleyanobutene hydriodide** (TROGER), 1888, A., 802.
- Methyleyanocamphor** (HALLER), 1891, A., 1499.
- Methyleytisine** (V. BUCHKA and MAGLAHNS), 1891, A., 750.
- β -Methyldaphnetin** (V. PECHMANN and COHEN), 1885, A., 56.
- Methyldehydrohexone** (PERKIN), 1887, T., 723.
- Methyldehydrohexone-mono- and -dicarboxylic acids** (PERKIN), 1887, T., 715, 717, 744, 747.
- Methyldehydropentone and methyldehydropentonecarboxylic acid** (MARSHALL and PERKIN), 1890, P., 133; 1891, T., 873, 880.
- Methyldeoxybenzoin** (MEYER and OELKER), 1888, A., 703.
- Methyldeoxybenzoins, isomeric** (STRASSMANN), 1889, A., 883.
- Methyldeoxybenzoincarboxylamide** (HEILMANN), 1890, A., 625; 1891, A., 201.
- m*-Methyldeoxybenzoin-*o*-carboxylic acid** HEILMANN, 1890, A., 625.
- μ -Methyldeoxybenzoin-*o*-carboxylic acid** HEILMANN, 1892, A., 473.
- Methyldeoxystrychnine** TAYLOR, 1892, A., 1014.
- Methyl-*ac*-diacetylpentane** (KIPPING and PERKIN), 1889, T., 346; P., 79.
- Methyldiazoamidobenzene** *diazoacetomethylanilide*, (FRISWELL and GREEN), 1886, T., 743; NOLLING and BINDER, 1888, A., 273.
- Methyldibutyltetrahydrophenanthrolins** SCHIFF and VASSI, 1890, A., 138.
- Methyldicarbocollidylumdehydride, and the action of acids on** HANTZSCH, 1884, A., 1046.
- 3-Methyl-2'-3- or -4-diethoxyquinoline, chloro-** (RUEHEIMER and HOFFMANN), 1886, A., 160.
- Methyldiethylamine** (PASSON), 1891, A., 1118.
- Methyldiethylcarbinol** (REFORMATSKY), 1888, A., 244.
- 5-Methyl-2'-4-diethyl-*m*-diazine, 6-amido-** See Cyanethine.
- Methyldiethylmethane.** See *ac*-Hexane.
- Methyldiethylphenylenediamine** (WILBERG), 1892, A., 1078.
- Methyldiethylphosphine** (COLLIE), 1888, T., 719.
- Methyldiethylphosphonium platinochloride** (ZIMATIS), 1883, A., 58.
- Methyldiethylsulphine platinochloride** (NASINI and SCATA), 1889, A., 115.
- Methyldiethylthiocarbamide** (NOAH), 1890, A., 1241.
- Methyldiethyluracil** (BEHREND; HOFFMANN), 1890, A., 31.
- Methyldiguanide and its compounds** (RIEBSCHNEIDER), 1883, A., 974.
- Methyldihydroanthracene, amido-, and its derivatives** (ROEMER), 1883, A., 1137.
- Methyldihydroindole, 1', 2', and 3', and their derivatives** (WENZING), 1887, A., 957.
- 2'-Methyldihydroindole, actions of** (BAMBERGER), 1891, A., 1097.
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- 2'-Methyldihydronaphthindole** (SCHIEPER), 1887, A., 154.
- Methyldihydropentene methyl ketone** (PERKIN), 1889, P., 142; 1890, T., 232; (MARSHALL and PERKIN), 1890, P., 143; 1890, T., 242.
pinacene of (MARSHALL and PERKIN), 1890, P., 143; 1890, T., 243.

- Methyldihydropentene methyl ketoxime** (PERKIN), 1889, P., 141; 1890, T., 236.
- Methyldihydropentenedicarboxylic acid** (PERKIN), 1889, P., 142; 1890, T., 233.
action of bromine and of hydrobromic acid on (PERKIN), 1889, P., 141; 1890, T., 235.
- 1-Methyldihydropyrroline** (MAGNAGHI), 1885, A., 809.
- 2'-Methyldihydroquinazoline** (GABRIEL and JANSEN), 1890, A., 1443.
- 3'-Methyldihydroquinazoline, 2'-thio-** (SODERBAUM and WIDMAN), 1890, A., 178.
- Methyldiodamine** (RASCHIG), 1886, A., 44.
- Methyl-2':4'-diketodihydroquinazolines, 1'- and 3'-** (ADI), 1889, A., 610.
- β -Methyl- α -diketohydrindene** (WILLIGTUS and KOFZEL), 1889, A., 1068.
- α -Methyldinicotinic acid.** See 2-Methylpyridine-3 5-dicarboxylic acid.
- Methyldiosphenol** (SHIMOMAMA), 1888, A., 1205.
- 1'-Methyldioxindole** (COLMAN), 1888, P., 96; 1889, T., 8.
- ν -Methyl- ψ -dioxithiazole** (ARAFIDE), 1889, A., 414.
- 1:3-Methyldiphenyl** (*phenyltoluene*) (ADAM), 1888, A., 959; (PERRIER), 1892, A., 851.
- Methyldiphenylcarbinyl-** See Phenyltolylcarbinyl-.
- Methyldiphenylene ketone oxide** (PHOMINA), 1890, A., 901.
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- Methyldiphenylformamidine** (COMSTOCK and WHEELER), 1892, A., 707.
- Methyldipropylamine** (PASSON), 1891, A., 1118.
- Methyldipropylcarbinol** (*metylic alcohol*) (GORFALOFF and SAYIZEFF), 1886, A., 437.
- Methyldiisopropylidihydroquinoline** (DENNSTEDT), 1889, A., 402.
- α -Methyldipyridyl and α -methyldipyridyl- α -carboxylic acid** (HECHLER and GROEHR), 1891, A., 81; 1892, A., 75.
- Methylegonine** (LIEBERMANN and GIESLER), 1890, A., 647; (EINHORN and MARQUARDT), 1890, A., 913.
- Methylemetonium hydroxide** (KUNZ), 1887, A., 981.
- Methylene, derivatives of** (HENRY), 1886, A., 43.
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trioxime (SCHOLL), 1891, A., 663.
- Methylene-azure** (BERNTSEN), 1886, A., 55.
- 4-Methylenebis-1-phenyl-3-methylpyrazolone** (PELLIZZARI), 1890, A., 646.
- Methylene-blue.** See Colouring matters.
- Methylenecarbamide** (V. DEMMELMAYR), 1891, A., 1340.
- Methylenecarbazole** (PULVERMACHER and LOB), 1892, A., 1466.
- Methylene-cinchonic and -cinchonic acids** (CLAUS), 1892, A., 1489, 1490.
- Methylenediacetamide** (PULVERMACHER), 1892, A., 579.
- Methylenediamines, substituted** (EHRNBERG), 1887, A., 1026.
- Methylenedibenzamide** (PINNER), 1891, A., 469; (THIESING), 1892, A., 467; (PULVERMACHER), 1892, A., 580.
- Methylenedibenzylamine.** See Dibenzylmethylenediamine.
- Methylenedigallic acid** (CARO), 1892, A., 856.
- Methylene-3:4-dihydroxybenzylic glycol** (TIEMANN), 1892, A., 17; (WAGNER), 1892, A., 310.
- Methylenedimalonic acid.** See Propane-tetracarboxylic acid.
- Methylenedi- β -naphthyl oxide** (CYRUS and RUPPEL), 1890, A., 511.
- Methylenediphenyldiamine** (PRATTI), 1885, A., 782.
- γ -Methylenediphenylene** (HODGKINSON and MATTHEWS), 1883, T., 164.
- γ -Methylenediphenylenesulphone.** See Diphenylenemethanesulphone.
- α -Methylenediphenylenesulphonic acid, and the fusion of its potassium salt with potash** (HODGKINSON and MATTHEWS), 1883, T., 166.
- γ -Methylenediphenylenic sulphide** (TRAUBE and SCHULTZ), 1891, A., 1059.
- Methylenediphenylic oxide** (RICHTER), 1884, A., 324.
- Methylenediphtalimide** (NEUMANN), 1890, A., 890.
- Methylenedipiperidine** (ESCHWEILER), 1890, A., 955; (KRAUF, ESCHWEILER and GROSSMANN), 1890, A., 1092.
- Methylenedipyrogallol** (CARO), 1892, A., 856.
- Methylenediquinoid.** See Methylenequinolyquinoline.
- Methylene-diresorcinol and -diresorcylic acid** (CARO), 1892, A., 856.
- Methylenedisalicylic acid** (CARO), 1892, A., 855.
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- Methylenedisulphonic acid.** See Methanedisulphonic acid.
- Methylenedi-*o*- and -*p*-toluidines** (GRUNHAGEN), 1890, A., 868.
- Methylenedi-*α*-toluoylamide** (THIE-SING), 1892, A., 467.
- Methylenedi-*o*- and -*p*-toluoylamides** (THIE-SING), 1892, A., 467.
- Methylene-ethylamine** (KOLOLOFF), 1886, A., 189.
- Methylene group**, replacement of the hydrogen atoms in (WALLACE), 1891, A., 189.
- Methylene-*i*-, -*m*- and -*p*-nitranilines** (PULVERMACHER), 1892, A., 1450.
- Methylene-/nitro-dibenzamide** (THIE-SING), 1892, A., 467.
- Methylenephthalaldehyde** (MERTEN), 1887, A., 51.
- Methylenephthalide** (GABRIEL), 1885, A., 1223.
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- Methylenephthalomethimidine** (GABRIEL), 1885, A., 1228.
- Methylenephthalphenimidine** (MERTEN), 1887, A., 52.
- Methylenequinolylquinoline** (*methyl-enediquinol*) hydrochloride (RHOU-SOPOULOS), 1883, A., 1150.
- Methylene-red and -violet** (BERNTH-SEN), 1886, A., 54.
- Methylenethiocarbamide** (v. HEMMEL-MAYR), 1891, A., 1339.
- Methylenedithiodiacetamide** (PULVER-MACHER), 1892, A., 550.
- Methylene-white.** See Leucomethylene-blue under Colouring matters.
- Methylenic dibromide** (*dibromomethane*) (HENRY), 1884, A., 718.
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- Methylenic dichloride** (*dichloromethane*), *mono-* and *diiodo-* (HOLLAND), 1887, A., 905.
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- Methylenitan.** See Carbohydrates.
- Methylenyl-.** See Methyleneonyl-.
- Methylethyrohydroxyanthraquinone** (BIRKOFF), 1887, A., 961.
- Methylethylenyltolylenediamine** and its methiodide (NIEMENTOWSKI), 1887, A., 937, 938.
- Methylethylacetal** (RUBENCAMP), 1885, A., 136.
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- Methylethylacetates**, solubility of (SEDLITZKY), 1885, A., 250.
- Methylethylacetic acid**, zinc salt of (SCHMIDT), 1886, A., 867.
- Methylethylacetoximic acid** (SCHRAMM), 1883, A., 573.

Methylethylacetylene (*putanum*, conversion of, into propylacetylene (FAWORSKI), 1888, A., 1168.

β -Methyl- α -ethylacetylpropionic acid, distillation of (THORNE), 1885, A., 1200.

α -Methyl- β -ethylacraldehyde (*hexenoic aldehyde*) (LIEBEN and ZEISEL), 1883, A., 570; (SOLONINA), 1888, A., 806.

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Methylethylacrylic acid. See Hexenoic acid.

Methylethylamidoiso-oxazole. See Methylethyliso-oxazole.

Methylethylamine (SKRAUP and WIEGMANN), 1889, A., 1018; (HINSBERG), 1892, A., 64.

Methylethylaniline and its derivatives (CLAUS and HOWITZ), 1884, A., 1005; (CLAUS and HINZEL), 1887, A., 135.

***o*-Methylethylbenzene** (*ethyltoluene*), preparation of (CLAUS and MANN), 1885, A., 888.

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***p*-Methylethylbenzene** (ANSCHÜTZ and ROMIG), 1885, A., 769.

m-*di*-amido- (ERRERA and BALDRACCO), 1892, A., 606.

***o*-Methylethylbenzene- β -sulphonic acid and chloride** (CLAUS and PIEZCZEK), 1887, A., 240.

Methylethylbromaniline (CLAUS and HOWITZ), 1884, A., 1006.

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Methylethylcarbinocarbinol (LIEBEN and ZEISEL), 1886, A., 781.

Methylethylcarboxylglutaric acid (BISCHOFF), 1891, A., 829.

3-Methyl-2'-ethylcinchoninic acid (v. MILLER), 1890, A., 1326.

1:3-Methylethyl-*m*-diazine and *di*-chloronitro- (PINNER), 1889, A., 1007.

Methylethylidicarboxylglutaric acids (BISCHOFF), 1891, A., 829.

1-Methylethylidihydronaphthaquinone (BIRBAL and AUGER), 1890, A., 388.

Methylethylidihydropentene methyl ketone (MARSHALL and PERKIN), 1890, T., 251.

4-Methyl-3-ethylidihydropyridine (*β -dihydrocrotidine*) (ODMANNER DE CONINCK), 1884, A., 1047.

1':3'-Methylethylidihydroquinoline (FISCHER and STECHE), 1888, A., 299.

1-Methyl-2-ethylenetetrahydropyridine. See Tripidine.

Methylethylene- ψ -thiocarbamide (GABRIEL), 1889, A., 849.

Methylethylenetolylaminodimethyltolylammonium iodide (HUBNER, TOLIE and ALLEN-PAINT), 1884, A., 1818.

***as*-Methylethylethylene**. See γ -Amylene.

Methylethylglutaric acids, *p*- and *meso*- (BISCHOFF), 1891, A., 829.

1:2-Methylethylglyoxaline *normal*ethyl-propyl (RADZISZEWSKI), 1883, A., 729.

2:1-Methylethylglyoxaline (*normal*ethyl-ethyl) (RADZISZEWSKI), 1883, A., 729.

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Methylethylhexamethylene, formation of (KIPPING and PERKIN), 1889, P., 143.

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2'-Methylethylideneindole (FISCHER), 1888, A., 281.

3':2'-Methylethylindazine and 3':1'-methylethylindazine (FISCHER and TAPPEL), 1885, A., 541, 542.

2':1'-Methylethylindole (FISCHER and STECHE), 1887, A., 976.

2':3'-Methylethylindole (FISCHER), 1886, A., 805; 1887, A., 149.

***p*-Methyl-1'-ethylindole** (*ethyl-p-tolindole*) and ***p*-methyl-1'-ethylindole-2'-carboxylic acid** (HEGEL), 1886, A., 552.

Methylethylketol (v. PECHMANN and DAHL), 1890, A., 1235.

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- Methylethylmaleic acid** FITZG and PARKER, 1892, A., 514.
- Methylethylmaleic anhydride** (BISCHOFF), 1891, A., 291; (MIRHAEL and TISSOT), 1891, A., 1456.
- Methylethylmalic acid** (MIRHAEL and TISSOT), 1891, A., 1455.
- Methylethylmalonic acid** OITO and BECKURTS, 1885, A., 754; (OITO and ROSING), 1888, A., 45. thermochemistry of (STOHMAN, KLEBER and LANGBEIN, 1882, A., 1097.
- Methylethylnitroureacil** (LEHMANN), 1890, A., 32.
- Methylethyliso-oxazole, amide-** (BURN), 1891, A., 889; (HENDERSON), 1891, A., 1108; 1892, A., 79.
- Methylethylloxazolone, bromo-** (HENDERSON), 1891, A., 1108; 1892, A., 79.
- 1:2-Methylethylpentamethylene** (MARSHALL and PERKIN), 1889, P., 143; 1890, T., 250.
- Methylethyl-*p*-phenylenediamine (*p*-amidoethyl-*o*-toluidine)** (WEINBERG), 1892, A., 1075.
- 2-Methyl-4-ethylpiperidine (*copullidine*)** (SCHULTZ), 1888, A., 64.
- 2-Methyl-5-ethylpiperidine (*ulidylid-collidine her hydrate; copullidine*)**, and its derivatives (DURKOFF), 1884, A., 1054; 1885, A., 817.
- 2-Methyl-6-ethylpiperidine** (SCHULTZ), 1888, A., 64.
- 4-Methyl-3-ethylpiperidine (*β-collidine her hydrate*)** (OECHNER DE CONINCK), 1884, A., 1048. physiological action of (BOCHEFEX-TAINE and OECHNER DE CONINCK), 1885, A., 681.
- 2:5-Methylethylpiperidylalkine.** See 5-Hydroxyethyl-2-ethylpiperidine.
- ββ-Methylethylpropionic acid (*heric acid*)** (VAN ROMBURGH), 1887, A., 228; 1888, A., 447.
- Methylethylpropylisobutylammonium chloride, optical isomerides of** (LEBEL), 1891, A., 1002.
- Methylethylpropylcarbinol (*tert*-*herylic alcohol*)** (SOKOLOFF), 1888, A., 1170.
- Methylethylisopropyl-*m*-diazine, amido-** (V. MEYER), 1889, A., 578.
- α-Methylethylpropylene (*herylene*)** (WILCENS), 1883, A., 967.
- Methylethylpropylic alcohol (*herylic alcohol*)** from essence of chamomile (VAN ROMBURGH), 1887, A., 228.
- 2-Methyl-4-ethylpyridine (*ethylpicoline*)** (SCHULTZ), 1885, A., 61.
- 2-Methyl-5-ethylpyridine (*old hericollidine*)** (DURKOFF), 1886, A., 257. constitution of (DURKOFF, 1886, A., 257; (DURKOFF and SCHULTZ), 1887, A., 737; 1888, A., 499. reduction and oxidation-products of (DURKOFF, 1885, A., 817.
- 2-Methyl-6-ethylpyridine (*ethylpicoline*)** (SCHULTZ), 1888, A., 64.
- 4-Methyl-3-ethylpyridine (*β-collidine*)** (HANTZSCH, 1883, A., 83; (OECHNER DE CONINCK), 1883, A., 739. physiological action of (MARIN and OECHNER DE CONINCK), 1883, A., 104. hydrate of (OECHNER DE CONINCK), 1883, A., 220.
- 6-Methyl-4-ethylpyridine (*α-collidine*)** (WILDLI and PICK, 1885, A., 557.
- Methylethylpyridines (*collidines*, preparation of** (MARIN and SCHULTZ), 1892, A., 725.
- Methylethylpyridylalkine.** See 2-Hydroxyethyl-5-ethylpyridine.
- 2-Methyl-1-ethylpyrrolidone-2-carbothioylamide and -2-carboxylamide** (KUEHLING), 1890, A., 793.
- 2-Methyl-1-ethylpyrrolidone-2-carboxylic acid** (KUEHLING), 1890, A., 793.
- Methylethylquinol and its derivatives** (FRALA), 1884, A., 1138; 1886, A., 454; (NOLTING and WERNER), 1891, A., 209.
- 3'-Methyl-2'-ethylquinoline and its salts** (DOEBNER and V. MILLER), 1884, A., 1376; (HARZ), 1886, A., 262; (ELIASBERG and FRIEDLANDER), 1892, A., 1107.
- 3'-Methyl-2'-ethylquinoline-1-carboxylic acid** (V. MILLER), 1890, A., 1326.
- 3-Methyl-2'-ethylquinoline-3'-carboxylic acid** (HARZ), 1886, A., 261.
- α-Methylethylsuccinic acid** (BISCHOFF), 1891, A., 829; (HELL), 1891, A., 1018.
- β-Methylethylsuccinic acid** (YOUNG), 1883, T., 180; (BISCHOFF and WARDEN), 1889, A., 959; (BISCHOFF and MINZ), 1890, A., 743.
- Methylethylsuccinic acids** (BISCHOFF and ZELINSKY), 1890, A., 741.
- 2'-Methyl-1'-ethyltetrahydroquinoline** (MOLLER), 1888, A., 297.
- α-Methyl-μ-ethylthiazole** (HUBACHER), 1891, A., 220.
- μ-Methyl-α-ethylthiazole** (HANTZSCH), 1890, A., 1235; (RUBLEFF), 1891, A., 223.

- m*-Methyl-*p*-ethyltoluene (CLAUS), 1892, A., 985.
- Methylethyltriphenyl*l*i thiobiuret (BILLETER and STROHL), 1888, A., 365.
- Methylethyluracil (BEHREND; HOFFMANN), 1890, A., 31.
- β -Methyl- α -ethylvalerolactone (YOUNG), 1883, T., 172, 178; A., 456.
- Methyleugenol, glycol from (WAGNER), 1892, A., 310.
- Methylisoeugenol, glycol from (WAGNER), 1892, A., 311.
- dibromide (CIAMICIAN and SILBER), 1890, A., 967.
- nitrosite of (ANGELI), 1892, A., 447.
- Methylfenchylamine (WALLACH and GRLEPENKERL), 1892, A., 1239.
- Methylflavolinium hydroxide. See 2'-Phenyl-1':4'-dimethylquinolinium hydroxide.
- Methylformanilide (PINNER), 1883, A., 1090; (NORTON and LIVERMORE), 1887, A., 1033; (BARBIER and VIGNON), 1888, A., 689; (PICTET), 1890, A., 758.
- m*-nitro- (COMSTOCK and WHEELER), 1892, A., 706.
- Methylisoformanilide (COMSTOCK), 1890, A., 1258; (COMSTOCK and KLEEGER), 1890, A., 1414.
- m*-nitro- (COMSTOCK and WHEELER), 1892, A., 706.
- Methylformimide hydrochloride (PINNER), 1883, A., 1089.
- Methylisoformo- α -naphthalide (COMSTOCK and WHEELER), 1892, A., 705.
- Methylformo-*p*-toluidide (BAMBERGER and WITZ), 1891, A., 1202.
- Methylisoformo-*o*- and -*p*-toluidides (COMSTOCK and CLAPP), 1892, A., 707, 708.
- Methyl-fumaramic acid and -fumarimide (GIUSTINIANI), 1892, A., 821.
- Methylfurfuraldehyde (HILL), 1890, A., 695; (MAQUENNE), 1890, A., 33.
- Methylfurfurancarboxylic acid. See Methronic acid.
- Methylfurfurine (BIELER and TOLLENS), 1890, A., 1105.
- α -Methylglutaric acid (*butanedicarboxylic acid*) (KILLANI), 1883, A., 962.
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- β -Methylglutaric acid (*butanedicarboxylic acid*; *ethylidenediacetic acid*) (KOMENOS), 1884, A., 422; (AUWERS, KÖBNER and v. MEYENBURG), 1892, A., 41.
- β -Methylglutaric acid (*butanedicarboxylic acid*; *ethylidenediacetic acid*), dibromo- (AUWERS and BERNHARDI), 1891, A., 1191.
- α -Methylglyceric acid and its salts (MELIKOFF), 1885, A., 651.
- β -Methylisoglyceric acid (MELIKOFF and PETRENKO-KRITSCHENKO), 1892, A., 296.
- β -Methylglycidamide, trichloro- (LEVY, WITTE and CURECHOD), 1890, A., 234.
- β -Methylglycidic acid and its salts (*propylenecarboxylic acid*) (MELIKOFF), 1884, A., 1301; 1885, A., 650.
- additive product of methylamine and (FIELINSKY), 1885, A., 752.
- β -Methylisoglycidic acid (MELIKOFF and PETRENKO-KRITSCHENKO), 1892, A., 296.
- γ -Methylglycidic acid. See Butylglycidic acid.
- Methylglycocine. See Sarcosine.
- Methylglyoxalbisphenylhydrazone (v. PECHMANN and WEHSARG), 1887, A., 1104; 1889, A., 47.
- Methylglyoxal- ω -hydrazoxime (v. PECHMANN and WEHSARG), 1889, A., 47.
- 1-Methylglyoxaline (*oxalmethylino*) (WALLACH), 1883, A., 50; (WOHL and MARKWALD), 1889, A., 867.
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- 2-Methylglyoxaline-4:5-dicarboxylic acid (MAQUENNE), 1890, A., 1439.
- Methylglyoxal- ω -methylphenylhydrazoxime (v. PECHMANN and WEHSARG), 1889, A., 48.
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- Methylglyoxime (SCHOLL), 1891, A., 237.
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- Methylspanglyoximecarboxylic acid** (HANTZSCH), 1892, A., 1176.
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- Methylguanecil** (CURATOLO), 1891, A., 539.
- Methylguvacine** (JAHNS), 1892, A., 740.
- Methylheptonic acid and lactone** (FISCHER), 1890, A., 599.
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- p*-Methylhexadecylbenzene, amido-** (KRAFFT and GORTIG), 1889, A., 130.
- p*-Methylhexadecylbenzenesulphonic acid**, sodium salt of (KRAFFT and GORTIG), 1889, A., 130.
- p*-Methylhexadecylphenetol and methylhexadecylphenol** (KRAFFT and GORTIG), 1889, A., 130.
- α*-Methylhexahydroanthracene** (GRAEBE and JULLARD), 1888, A., 156.
- 1-Methylhexahydronicotinic acid** (JAHNS), 1892, A., 740.
- Methylhexamethylene methyl ketone** (FREER and PERKIN), 1888, T., 213.
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- o*-Methylhexamethylenemethylcarbinol** (KIPPING and PERKIN), 1889, P., 144.
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- Methylhexyloarbinyl cyanide** (FREUND and SCHONFELD), 1892, A., 132.
- Methylhexyldiphenolmethane** (DIANIN), 1889, A., 1187.
- β*-Methylhexylethylene** (FREUND and SCHONFELD), 1892, A., 133.
- 1:2-Methylhexylglyoxaline** (*oxalimethyl-oxanthylin*) (KARY), 1887, A., 911.
- Methylhexylhydroxypyrotartaric acids *α*- and *β*-**, salts of (FITTIG and RIECHELMANN), 1890, A., 593; (FITTIG and RIECHELMANN), 1890, A., 593, 594.
- Methylhexylparaconic acids, *α*- and *β*-** (FITTIG and RIECHELMANN), 1890, A., 593, 594.
- α*-Methylhomo-*o*-phthalimide and -*o*-phthalonitrile** (GABRIEL), 1887, A., 1112.
- α*-Methylhomopiperidic acid** (ASCHAN), 1891, A., 1246.
- α*-Methylhomoterephthalic acid** (ERRERA), 1891, A., 1021.
- Methylhydantoin** (*isofumarimide*) (FRANCHIMONT and KLOBBE), 1889, A., 1143.
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- γ*-Methylhydantoin** (GUARENCHI), 1892, A., 828.
- Methyl-hydrastallylamide and -hydrast-*iso*amylamide** (FREUND and HEIM), 1891, A., 92, 93.
- Methylhydrast-amide and -imide and its methiodide** (FREUND and HEIM), 1891, A., 92.
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- Methylhydrastine** (FREUND and ROSENBERG), 1890, A., 533.
- Methylhydrastine** (FREUND and ROSENBERG), 1890, A., 532; (SCHMIDT), 1890, A., 1167.
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- Methylhydrasto-methyl- and -ethylamides** (FREUND and HEIM), 1891, A., 93.
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- Methylhydrazidobenzenesulphonic acid** (PULF), 1887, A., 934.
- Methylhydrazine** (V. BRUNING), 1888, A., 936; 1890, A., 23.
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- γ*-Methylhydrindene-*β*-carboxylic acid** (ROSE), 1887, A., 836; 1888, A., 1303.
- o*-Methylhydrindone and its phenylhydrazone** (YOUNG), 1892, A., 1221.
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- β*-Methylhydrindone and its phenylhydrazone** (V. MILLER and ROHDE), 1890, A., 1139.
- m*-chloro-** (V. MILLER and ROHDE), 1890, A., 1140.
- Methylhydroacridine** (BERNTHSEN and BENDER), 1888, A., 1134.
- Methylhydroberberine** (GIACOSA and SOAVE), 1890, A., 920; (GAZE), 1890, A., 1012.

- Methylhydrobergaptic acid** (POMERANZ), 1892, A., 72.
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- α -Methylhydrocinnamic acid.** See Phenylisobutyric acid.
- β -Methylhydrocinnamic acid** (KROBER), 1890, A., 969; (V. MILLER and ROHDE), 1890, A., 1140.
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- Methylhydrocotoin** (CIAMICIAN and SILBER), 1891, A., 578.
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- Methylhydrohydrastinine and its derivatives** (FREUND and DORMEYER), 1891, A., 1519.
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- acetylcarbamate (FRANCHIMONT and KLOBBIE), 1889, A., 1144.
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- acrylates, three, refractive indices of (KAHLBAUM), 1885, A., 1173.
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- α -amidobenzoate, action of ammonia on derivatives of (ZACHARIAS), 1891, A., 912.
- m -amidocumate (ABENIUS), 1890, A., 269.

- Methylic β -amidoethylcarbonate and "amidomethylacetacetate"** (CONRAD and EPSTEIN), 1888, A., 253.
- amidoformate, action of nitrous acid on** (KLOBBE), 1891, A., 292.
- α -amidopropionate hydrochloride** (CURTIUS and LANG), 1892, A., 453.
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- amidosulphobenzoate** (HENTSCHER), 1885, A., 792.
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- anhydroberberilate** (PERKIN), 1890, T., 1039; P., 120.
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- anisylimidoanisylthiocarbamate and anisylithiocarbamate** (FOERSTER), 1888, A., 944, 945.
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- apionylglyoxylate** (GARELLI), 1892, A., 328.
- azimethylenedicarboxylate** (CURTIUS and LANG), 1892, A., 452.
- azinsuccinate** (CURTIUS and KOCH), 1885, A., 886.
- benzeneazocamphocarboxylate** (HALLER), 1892, A., 1344.
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- benzeneazodinitrophenylacetate** (MEYER), 1888, A., 693.
- benzenesulphonate** (KRAFFT and ROOS), 1892, A., 1220.
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- benzoylcocetylhydroxyacetate** (EINHORN), 1889, A., 420.
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- benzylidenedibenzoylacetate** (BUCHNER and CURTIUS), 1885, A., 1238.
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- m -bromacetamidocumate** (ABENIUS), 1890, A., 270.
- β -bromacetylcarboxypyrrolate** (CIAMICIAN and SILBER), 1888, A., 62.
- β -bromanisate** (BALBIANO), 1883, A., 1125.
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- p -bromobenzenesulphonate** (KRAFFT and ROOS), 1892, A., 1220.
- β -bromomaleate** (PTM), 1888, A., 1058.
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- β -bromopyrrolone-2:5-dicarboxylate** (CIAMICIAN and SILBER), 1888, A., 61.
- bromosalicylate** (PERATONER), 1887, A., 486.
- bromo- p -terephthalate** (FILELLI), 1887, A., 52.
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 β -Methyl-pentathienone and -pentathiophen (KRECKELER), 1887, A., 239.

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 α -Methylphthalic acid [m.p. 152°] (NIEMENTOWSKI), 1892, A., 607.
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 α -Methylphthalodiamide (NIEMENTOWSKI), 1892, A., 607.
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- Methylpipercolylalkine.** See Hydroxyethylmethylpiperidine.
- 2-Methylpiperidine** (LADENBURG), 1887, A., 740.
- 1-Methylpiperidine** (LADENBURG), 1883, A., 1151.
- 2-Methylpiperidine and its derivatives** (LADENBURG), 1884, A., 1051; 1887, A., 64, 283; (LADENBURG and ROTH), 1885, A., 557.
- synthesis of (LADENBURG), 1884, A., 1054.
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- α -methylpiperylthiocarbamate (LADENBURG and ROTH), 1885, A., 557.
- 3-Methylpiperidine and its derivatives** (LADENBURG), 1884, A., 760; 1887, A., 64; (HESEKIEL), 1885, A., 812; 1886, A., 257; (STOEHR), 1888, A., 63; 1892, A., 629.
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- 4-Methylpiperidine** (LADENBURG), 1888, A., 499.
- 3-Methylpiperidone** (ASCHAN), 1891, A., 1246.
- Methylpiperyl-azone and -tetrazone derivatives** (KNORR), 1884, A., 468.
- Methylpropargylamine** (PAAL and HERMANN), 1890, A., 230.
- Methylisopropenylcarbinol** (KONDAKOFF), 1886, A., 137; 1888, A., 125.
- Methylpropionylacetoneitrile** (v. MEYER), 1889, A., 114; (BOUVEAULT), 1891, A., 51.
- Methyl-*n*- and -*iso*-propylacetic acids.** See Hexoic acids.
- Methylisopropylacetone.** See Methyl amyl ketone.
- Methylpropylacetoximic acid.** See Methylpropylglyoxime.
- Methylpropylacetylene**, conversion of, into butylacetylene (FAWORSKY), 1889, A., 1169.
- Methylpropylacrylic acid** (REFORMATSKY), 1891, A., 169.
- Methylpropylallylcarbinol**, glycerol from (REFORMATSKY), 1890, A., 121.
- Methylpropylaniline and its derivatives** (CLAUS and HRZEL), 1887, A., 131.
- Methylpropylbenzene.** See Cymene.
- 1-Methyl-3-propyl-2-benzoic acid** (*p*-propyl-*o*-toluic acid) (KREYLER), 1885, A., 1055.
- 1-Methyl-3-propyl-4-benzoic acid** (*cymylcarbonylic acid*) (CLAUS and CROPP), 1886, A., 463.
- Methylpropylcarbinol** (*sec-amyllic alcohol*) (MARKOWNIKOFF), 1884, A., 1280.
- Methylpropylcarbinol** (*sec-amyllic alcohol*), formation of (MARSHALL and PERKIN), 1891, T., 874.
- trichloro-*, and its derivatives (v. GARZAROLLI-THURNLACKH), 1884, A., 1118.
- o*-Methyl-*p*-propylcoumarin** (v. PECHMANN and WELSH), 1884, A., 1346.
- p*-Methylpropyldihydroxydiphenylic sulphide** (TASSINARI), 1887, A., 808.
- β -Methylpropylethylenelactic acid** (REFORMATSKY), 1891, A., 169.
- Methylisopropylethylenic glycol** (FOSSEK), 1884, A., 833; (SWOBODA and FOSSEK), 1891, A., 31.
- Methylpropylethylenic oxide** (ELTEKOFF), 1883, A., 567.
- s*-Methylpropylglutaric acids** (BISCHOFF and THIERSTEDT), 1890, A., 1103.
- 1:2-Methylpropylglyoxaline** (*osul-methylbutylglyne*) (RIEGER), 1889, A., 119.
- 1:2-Methylisopropylglyoxaline** (*osul-methylisobutylglyne*) (RIEGER), 1889, A., 120.
- 2:1-Methylpropylglyoxaline** (*osul-propylethylglyne*), synthesis of (RADZISZEWSKI), 1883, A., 729.
- Methylpropylglyoxime** (SCHRAMM), 1884, A., 52.
- α -Methylpropyl- β -hydroxybutyric acid**, decomposition of, by heat (JONES), 1885, A., 376.
- Methylisopropylmalonic acid** (VAN ROMBURGH), 1887, A., 232.
- Methylpropylphenanthrene.** See Retene.
- o*-Methyl-*p*-propylphenylmethylketone** (CLAUS and CROPP), 1888, A., 463.
- Methylpropylpinacone** (SZYMANSKI), 1886, A., 784.
- Methylpropylpyridine** (3:5-dimethyl-2-ethylpyridine) (WAGGE), 1881, A., 172; (DURKOFF and GÖTTSCHE), 1890, A., 795, 1002.
- Methylpropylquinol** (FIALA), 1884, A., 1138.
- 5:2-Methylpropylquinone and its oxime**, 6-iodo- (KEHRMANN), 1889, A., 993.
- Methylpropylthiocarbamide** (HECHT), 1890, A., 476.
- Methylpropylthiocarbonyl** (BILLETTER and STROHL), 1888, A., 364.
- Methylprotocotoin** (CIAMICIAN and SILBER), 1892, A., 63.
- action of phosphoric chloride on (BARTOLOTTI), 1892, A., 1314.
- Methylpurin derivatives** of (FISCHER), 1884, A., 996.
- 3-Methylpyrazolone** (CURTIUS and JAY), 1889, A., 393.
- 2-Methylpyridine.** See α -Picoline.

- 3-Methylpyridine. See β -Picoline.
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 2-Methylpyridine 1-carboxylic acid (*α -picoline-4-carboxylic acid*) (BOEFINGER), 1884, A., 758.
 2-Methylpyridine-5-carboxylic acid (DURKOFF), 1885, A., 817.
 4-Methylpyridine-2-carboxylic acid (BACHER), 1889, A., 163.
 4-Methylpyridine-3-carboxylic acid (*homocoumaric acid*) (OLCHNER DE CONINCK), 1883, A., 739; 1885, A., 671.
 3-Methylpyridinedicarboxylic acid [$\text{COOH} = 5:6$ or $2:5$] (DURKOFF and SCHLAUCK), 1888, A., 805; (DURKOFF and GOTTSCHE), 1890, A., 1002.
 2-Methylpyridine-3:5-dicarboxylic acid (*methylidinic acid*) (WEBER), 1887, A., 1117.
 2-Methylpyridine-4:6-dicarboxylic acid (*uronic acid*) (AUFAR), 1887, A., 379.
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 1-Methyl- α -pyridone (*cryst. methylpyridone*) (v. PLEHMANN and BALZER), 1892, A., 209.
 1-Methyl- γ -pyridone and its derivatives (HALLINGER and LIEBEN), 1885, A., 966.
 1-Methyl-4-pyridone-6-carboxylic acid, 2:3:5-trichloro- (ZINKE and FUCHS), 1892, A., 459.
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 2-Methylpyrrolidine (TAFEL), 1887, A., 463; (TAFEL and NUGLEBAUER), 1889, A., 1015.
 3-Methylpyrrolidine (TAFEL), 1887, A., 463; (OLDACH), 1887, A., 735.
 2-Methylpyrrolidone (TAFEL), 1887, A., 463; 1889, A., 961.
 2-Methylpyrrolidone-2-carbonitrile (KUEHLING), 1889, A., 1212.
 2-Methylpyrrolidone-2-carboxylamide (KUEHLING), 1890, A., 793.
 1-Methylpyrroline (CIAMICIAN and DENNSTEDT), 1885, A., 378.
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 1-Methylpyrroline, *trichloro-* (DE VARDIA), 1889, A., 57.
 2-Methylpyrroline (DENNSTEDT and LEHNE), 1889, A., 1209.
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 3-Methylpyrroline (DENNSTEDT and LEHNE), 1889, A., 1209.
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 Methylpyrrolinebisazobenzene (FISCHER and HEPPE), 1886, A., 1041.
 1-Methylpyrrolineketonedicarboxylic acid (ZANETTI), 1890, A., 1431.
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 2-Methylpyrrol styryl ketone (DENNSTEDT and LEHNE), 1889, A., 1209.
 1-Methylpyrrolalloxan (CIAMICIAN and SILBER), 1886, A., 897.
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 2'-Methylquinazoline (BIMCHIEL), 1891, A., 745.
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 1-Methylquinoline (*α -toluquinoline*), derivatives of (HLEZIG), 1884, A., 1198, 1199.
 4-amido- [m.p. 143] (NOBFIN and TRAUBMANN), 1891, A., 327; 1892, A., 723.

- 1-Methylquinoline (*o-toluquinoline*), 3-bromo-, and its derivatives (ALT), 1889, A., 1214.
 4-chloro-, and some of its salts (GATTERMANN and KAISER), 1886, A., 79.
 2':3':4'-trichloro- (RÜGHEIMER and HOFFMANN), 1886, A., 160.
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 3-nitro- (LELLMANN and ZIEMSEN), 1891, A., 1257.
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 2-Methylquinoline (*m-toluquinoline*) (MAGNANINI), 1890, A., 1322.
 3-Methylquinoline (*p-toluquinoline*), derivatives of (HERZFELD), 1884, A., 1199.
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 1'-Methylquinoline, 4'-bromo-4-nitro- (CLAUS and DECKER), 1889, A., 728.
 2'-Methylquinoline (*quinahline*) (FISCHER and KRZEL), 1883, A., 588; (DOEBNER and v. MILLER), 1883, A., 602; (WALLACH and WURZEN), 1883, A., 1097; (ANON.), 1884, A., 756.
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 2'-Methylquinoline (*quinahline*), condensation of *m*-nitrobenzaldehyde with (WARTANIAN), 1891, A., 329.
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 2'-Methylquinoline, 2-amido- (GERDESEN), 1889, A., 520.
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 3'-amido- and 3':4'-diamido- and their hydrochlorides (CONRAD and LIMPACH), 1888, A., 1111.
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 3'-chloro- (KNORR and ANTRICK), 1885, A., 274; (MAGNANINI), 1887, A., 1113; 1890, A., 1322.
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 3':1'-nitramido- (CONRAD and LIMPACH), 1888, A., 1111.
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 3'-Methylquinoline, preparation of (v. MILLER), 1891, A., 1095.
 4'-Methylquinoline (*lepidine; cinchotrypidine*) (KRAKAU), 1886, A., 162; (KNORR), 1887, A., 159.
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- 4'-Methylquinoline (*lipidine*; *incholepidine*), derivatives (HEYMAN and KOENIGS), 1888, A., 832.
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- 4'-Methylquinoline, 2'-amido- (KLOTZ), 1888, A., 1113; (EPHRAIM), 1892, A., 1488.
3-amido- (BUSCH and KOENIGS), 1890, A., 1487.
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2'-chloro- (KNORR), 1887, A., 159.
3'-chloro- (MAGNANINI), 1887, A., 1113; 1890, A., 1322.
1-nitro- (BUSCH and KOENIGS), 1890, A., 1435.
2'-thio- (ROOS), 1888, A., 500.
- 2-Methylquinoline quinoneoximes (NOLTING and TRAUTMANN), 1891, A., 326; 1892, A., 727, 728, 729.
2'-Methylisoquinoline (KLAUS), 1891, A., 86.
4'-Methylisoquinoline (LEBLANC), 1888, A., 1114.
1:3'-dichloro- (GABRIEL), 1887, A., 1112.
- Methylquinolines (DOEBNER and V. MILLER), 1885, A., 1079.
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- 2'-Methylquinoline-3-acrylic acid (V. MILLER and KINKELIN), 1886, A., 265.
2'-Methylquinolineacrylic acids (*quin-aldineacrylic acids*) [m.p.s. 246° and 184°] (ECKHARDT), 1889, A., 521.
2'-Methylquinoline-2-aldehyde (*quin-aldinaldehyde*) (ECKHARDT), 1889, A., 522.
2'-Methylquinoline-3-aldehyde (V. MILLER and KINKELIN), 1886, A., 265.
1-Methylquinoline-4-carboxylic acid (LELLMANN and ALF), 1887, A., 502.
2'-Methylquinoline-1-, -2- and -3-carboxylic acids and their salts (DOEBNER and V. MILLER), 1884, A., 1200.
2'-Methylquinoline-3'-carboxylic acid and its ethyl salt (FRIEDLANDER and GÖHRING), 1883, A., 1149.
2'-Methylquinoline-4'-carboxylic acid (*anthurtonic acid*) and its derivatives (BOTTINGER), 1884, A., 320; (BEYER), 1886, A., 630.
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- 2'-Methylquinoline-1'-carboxylic acid (*anthurtonic acid*), oxidation of (BOTTINGER), 1891, A., 1092.
3'-Methylquinoline-2'-carboxylic acid (DOEBNER and V. MILLER), 1884, A., 1376.
2'-Methylquinoline-3:4'-dicarboxylic acid (V. MILLER), 1890, A., 1325.
1-Methylquinoline-3-sulphonic acid (HERZFELD), 1884, A., 1198; (LELLMANN and ZIMMSEN), 1891, A., 1257.
1-Methylquinoline-1-sulphonic acid (HERZFELD), 1884, A., 1199.
3-Methylquinoline-1-sulphonic acid (FISCHER and WITTMACK), 1884, A., 1052; (HERZFELD), 1884, A., 1199.
2'-Methylquinoline-1-sulphonic acid (DOEBNER and V. MILLER), 1884, A., 1373.
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2-Methylquinoline-2-sulphonic acid, constitution of (RICHARD), 1891, A., 329.
2'-Methylquinoline-2- or -4-sulphonic acid (DOEBNER and V. MILLER), 1884, A., 1373.
2'-Methylquinoline-3-sulphonic acid (DOEBNER and V. MILLER), 1884, A., 1373.
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2-Methylquinoline-3'-sulphonic acid, preparation of (ANON.), 1885, A., 945.
2'-Methylquinoline-4'-sulphonic acid (HERZFELD), 1884, A., 1199.
4'-Methylquinoline-1(?)-sulphonic acid (WEINEL and HAZTRA), 1885, A., 562.
4'-Methylquinoline-3-sulphonic acid (BUSCH and KOENIGS), 1890, A., 1434.
Methylquinolinesulphonic acids, 1- and 3- (LELLMANN and ZIMMSEN), 1891, A., 1257.
1'-Methyl-2'-quinolone, bromo- and 4-nitro- derivatives of (DICKLER), 1892, A., 879.
2'-Methylquinolyl benzoate (CONRAD and LIMPACH), 1888, A., 1109.
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phenyl ketone (GLIGY and KOENIGS), 1885, A., 1236.
4'-Methylquinolyl ethyl sulphide, mercaptan and disulphide (ROOS), 1888, A., 501, 500.
2'-Methylquinolyl-3-ethylene-2'-quinoline (BLANCH), 1889, A., 528; (WARRANT), 1891, A., 330.
- Methylquinone. See Toluquinone.
 μ -Methylquinophthalone (JACOBSEN and REIMER), 1884, A., 335.
1-Methylquinoxaline (*toluquinocutline*) (HINSBERG), 1884, A., 1053.

- 2-Methylquinoxaline, derivatives of (NIRMENOWSKI), 1889, A., 1065.
- 3-Methylquinoxaline-2':3'-dicarboxylic acid (HINSBERG), 1885, A., 910.
- Methylresorcinol. See Oicinol.
- Methylrosindone (FISCHER and HEPP), 1890, A., 909.
- Methylrosindulone (KEHRMANN and MESSINGER), 1891, A., 1213.
- "Methylsaccharin" (ANON.), 1890, A., 382; (RANDALL), 1891, A., 1223; (WEBER), 1892, A., 1092.
- o*-Methylsalicylamidoxime. See *o*-Methoxybenzenylamidoxime.
- Methylsalicylalcamphor. See *o*-Methoxybenzylidenecamphor.
- o*-Methylsalicylaldehyde. See *o*-Methoxybenzaldehyde.
- Methylsaligenylcamphor (HALLER), 1891, A., 1499.
- Methylscopolettine acid and methylscopoletin (TAKAHASHI), 1889, A., 256.
- Methylselenazole, amido- (HOFMANN), 1889, A., 726.
- α -Methyl-selenazylamine and -selenazylamine- β -carboxylic acid (HOFMANN), 1889, A., 726, 727.
- Methylsemicarbazide (V. BRUNING), 1890, A., 23.
- Methylstilbazole. See Styrylmethylpyridine.
- Methylstilbazoline (*phenethylmethylpiperidine*) (BACHER), 1889, A., 103.
- p*-Methylstilbene (ANSCHUTZ), 1885, A., 1065.
- chloro- (STUBBOROUGH), 1892, A., 1224.
- p*-Methylstilbenedisulphone (OITO and DAMKOHLER), 1885, A., 263.
- Methylstrychnic acid (TAFEL), 1892, A., 1012.
- methiodide (TAFEL), 1891, A., 1263.
- Methylstrychnic acid methiodide (TAFEL), 1891, A., 1264.
- Methylstrychnine (TAFEL), 1890, A., 1147; 1891, A., 1263.
- iso*Methylstrychnine (TAFEL), 1891, A., 1264.
- Methylstyrene. See Tolylacetylene.
- Methylsuccinamic dimethylamide (KORNER and MENOZZI), 1890, A., 870.
- Methylsuccinamide (*pyrotartaramide*) (HENRY), 1885, A., 886.
- Methylsuccinic acid (*hydroxytetracetic acid*; *pyrotartaric acid*) (GORBOFF), 1888, A., 1179; (CLOEZ), 1890, A., 739; (BISCHOFF and V. KHELBERG), 1890, A., 742; (WALDEN), 1891, A., 1188.
- in suint (A. and P. BUTINNE), 1889, A., 178.
- Methylsuccinic acid (*hydroxytetracetic acid*; *pyrotartaric acid*), formation of (BEILSTEIN and WIEGAND), 1884, A., 1123; (ERLENMEYER), 1885, A., 753.
- thermochemistry of (STOHMANN, KLEBER and LANGBEIN), 1889, A., 1097; (MASSOL), 1892, A., 1140.
- heat of combustion of (LUGININ), 1889, A., 5.
- specific heat of (HESS), 1889, A., 93.
- action of ammoniacal silver solution and sulphuric acid on (BEILSTEIN and WIEGAND), 1884, A., 1123.
- action of aniline on (BOTTINGER), 1884, A., 1006.
- condensation of, with benzaldehyde (FITTIG and LIEBMANN), 1890, A., 775.
- condensation of, with cinnamaldehyde (FITTIG and RIECHELMANN), 1890, A., 593.
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- 1:4-Naphthaquinol, dichloro-** (CLAUS), 1886, A., 714.
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- Naphthaquinols, to distinguish certain (KORN), 1885, A., 392.
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- β -Naphthaquinoline, formation of (LELMANN and SCHMIDT), 1889, A., 289.
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- β -Naphthaquinolinesulphonic acid (GENTIL), 1885, A., 561.
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- α -Naphthaquinone (MELDOLA), 1853, T., 433; (MILLER), 1885, A., 667.
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- α -Naphthaquinone, 1':4'-dibromo- (GUARESCHI), 1884, A., 842.
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- α -Naphthaquinone, 2-chloro- (CLEVE), 1888, A., 596; (ZINCKE), 1886, A., 709.
- 1':4'-dichloro- [m.p. 173°] (GUARESCHI), 1886, A., 807.
- 2:3-dichloro-, dichloride (CLAUS), 1890, A., 786.
- 2:3'-dichloro- [m.p. 148°] (CLAUS and MUELLER), 1886, A., 247.
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- β -Naphthaquinone**, 3-nitro-, action of chlorine on (ZINCKE and LATTEY), 1892, A., 1229; (ZINCKE and SCHARFENBERG), 1892, A., 1232. derivatives of (ZAERTING), 1890, A., 509.
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- β -Naphthaquinoneanilide**, nitro- (BRAUNS), 1884, A., 1035; (KORN), 1884, A., 1186.
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- β -Naphthaquinonephenylhydrazide** (ZINCKE), 1883, A., 1135; (ZINCKE and BINDEWALD), 1885, A., 391.
- α -Naphthaquinone-3'-sulphonic acid, 2:3-dichloro-** (CLAUS and VAN DER CLOET), 1888, A., 602.
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- α -Naphthaquinonetolazine** (LEICESTER), 1890, A., 1447.
- α -Naphthaquinone-*o*- and -*p*-toluidides, β -chloro-** (CLAUS and MUELLER), 1886, A., 247.
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α-Naphthol-2:4-(²)disulphonic acid (CLAUS and MIELCKE), 1886, A., 716.
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α-Naphthol-2:2'- and -2:4-disulphonic acids (BENDER), 1889, A., 718.
β-Naphtholdisulphonic acid, action of tetrazodiphenyl on (SCHULTZ), 1884, A., 1036.
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β-Naphthol-3:3'-disulphonic acid [α- or R.-], constitution of (FITZINGER and DUISBERG), 1889, A., 515.
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α-Naphtholmaleinfluorescein (BURCKHARDT), 1886, A., 51.
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α-Naphtholsulphonamidisulphonic acid [β-] (BERNTHSEN), 1891, A., 215.
α-Naphtholsulphonic acid, amido- (SCHMIDT), 1892, A., 476.
α-Naphthol-1'-sulphonic acid (ERDMANN), 1889, A., 157.
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α-Naphthol-2-sulphonic acid (BENDER), 1889, A., 717; (CLÉVE), 1892, A., 345.
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α-Naphthol-2-[(¹)sulphonic acid and its salts (CLAUS and KNYRIM), 1886, A., 156.
α-Naphthol-2'-sulphonic acid (BENDER), 1889, A., 717.
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α-Naphthol-4'-sulphonic acid (ERDMANN), 1889, A., 157.
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- β*-Naphthol-1-sulphonic acid** [*α*]
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- β*-Naphthol-2'-sulphonic acid** [*δ*-, or F.-]
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- β*-Naphthol-3'-sulphonic acid**, constitution of [*β*'] (ARMSTRONG and WYNNE), 1889, P., 53.
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- β*-Naphthol-4'-sulphonic acid** [*γ*']
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- α*-Naphthol-2-4-2'-trisulphonic acid**
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- β*-Naphthol-3-3'-1'-trisulphonic acid**
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- Naphthol-violet**, action of aromatic bases on (HIRSCH and KALCKHOFF), 1891, A., 77.
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- Naphthol-yellow**, S., constitution of (ARMSTRONG and WYNNE), 1889, P., 16.
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- α*-Naphthonitrile** (*α-cyanonaphthalene*)
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- β*-Naphthonitrile** (*β-cyanonaphthalene*), action of sodium on alcoholic (BAMBERGER and BOCKMANN), 1887, A., 840.
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1-3'-dibromo- (CLAUS and PHILIPSON), 1891, A., 462.
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- α*-Naphthonitrilesulphonic acid** (*α-cyanonaphthalenesulphonic acid*)
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- Naphthoxanthenes** (BENER), 1892, A., 1100.
- Naphthoxindoles**, *α*- and *β*- (HINSBERG), 1888, A., 373, 372.
- Naphthoylacacetamide** (PINNER), 1892, A., 983.
- Naphthoylformic acid**. See Naphthylglyoxylic acid.
- Naphthoylhydroxamic acids**, *α*- and *β*- (EKSIRAND), 1887, A., 840.
- Naphthoylnaphastyrils**, *α*- and *β*- (EKSTRAND), 1889, A., 53.
- α*-Naphthoyl-*α*-naphthenylamidoxime**
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- β*-Naphththiamide** (BAMBERGER and BOCKMANN), 1887, A., 875.
- Naphthyl benzyl ketone** (PAPCKE), 1888, A., 702.
- Naphthyl ethyl ether**. See Ethoxynaphthalene.
- amido-**. See Ethoxynaphthylamine.
- α*-Naphthyl glycidyl ether** (LINDEMANN), 1891, A., 1199.
- Naphthyl mercaptans**, *α*- and *β*-, amido- (V. HOFMANN), 1887, A., 839.
- α*-Naphthyl methyl ketone** and its derivatives (PAMPEL and SCHMIDT), 1887, A., 252; (CLAUS and FEIST), 1887, A., 271.
- β*-Naphthyl methyl ketone** (MÜLLER and V. PEHMANN), 1890, A., 52; (SCHWILIZER), 1891, A., 729.
- Naphthyl methyl ketones** (ROUX), 1888, A., 1306; (CLAUS and TERSTREGEN), 1891, A., 214.

- Naphthyl methyl ketones, action of phosphoric chloride on (LEROY), 1892, A., 495.
- α -Naphthyl phenyl ketone and its derivatives (VINCENT and RUTX), 1884, A., 609; (ELBS), 1887, A., 943; (ROSPENDOWSKI), 1886, A., 625; (ELBS and STEINKE), 1886, A., 947; (KEGFL), 1888, A., 1307. boiling point of SCHWILTZER, 1891, A., 1240.
- sodium derivative of BICKMANN and PAUL, 1892, A., 170.
- β -Naphthyl phenyl ketone (VINCENT and RUTX), 1884, A., 609; (ROSPENDOWSKI), 1886, A., 625; (KEGFL), 1888, A., 1307.
- α -Naphthylacetamide and α -naphthylacetonitrile (BOLSSNECK), 1883, A., 808.
- α -Naphthylacetic acid (BOLSSNECK), 1883, A., 808.
- β -Naphthylacetic acid (CLAUS and TEASTFEGEN), 1891, A., 215; (SCHWEITZER), 1891, A., 730.
- Naphthylacetylenes, α - and β -, and their derivatives (LEROY), 1892, A., 495, 496.
- α -Naphthylacrylic acid (α -naphthacinnamic acid) (BRANDIS), 1889, A., 1200.
- β -Naphthylalkylamines, reduction of (BAMBERGER and MULLER), 1889, A., 888.
- Naphthyl- β -allylsemithiocarbazide (AVENARIUS), 1891, A., 550.
- α -Naphthylamidoacetic acid (*naphthylglycocinic*) (BISCHOFF and NAST-VOGEL), 1889, A., 1015; (JOLLES), 1889, A., 1199; (FORTE), 1890, A., 900.
- calcium salt of (MAUTHNER and STIDA), 1891, A., 39.
- β -Naphthylamidoacetic acid (JOLLES), 1889, A., 1199.
- Naphthylamidoacetic acids, derivatives of (JOLLES), 1889, A., 1199; (BISCHOFF and HAUSDORFER), 1890, A., 1309; 1892, A., 1341.
- α -Naphthylamidoacetic naphthylamide (BISCHOFF and HAUSDORFER), 1892, A., 1341.
- β -Naphthylamidoacetic naphthylamine (JOLLES), 1889, A., 1199.
- α -Naphthylamidoacetyl- α -naphthylamineacetic acid (BISCHOFF and HAUSDORFER), 1892, A., 1341.
- Naphthylamidobenzoic acids, *m*-amido- and *m*-nitro-, *p*- α - and β - (HEIDEN-STEEN), 1891, A., 307.
- Naphthylamidobiazolones, α - and β - (FREUND), 1892, A., 510, 508.
- Naphthylamidobutyric acids, α - and β - (BISCHOFF and MINTZ), 1892, A., 1335.
- Naphthylamidoisobutyric acids, derivatives of (BISCHOFF and MINTZ), 1892, A., 1342.
- α -Naphthylamidocyanuric chloride (FRILS), 1886, T., 314.
- β -Naphthylamidocyanuric chloride (FRIES), 1886, T., 710.
- Naphthylamidoethylphthalimides, α - and β - (NEWMAN), 1891, A., 120.
- Naphthylamidopropionic acids, α - and β - (BISCHOFF and HAUSDORFER), 1892, A., 1337.
- Naphthylamidosuccinic acids, α - and β - (HELL and POLIAKOFF), 1892, A., 860.
- Naphthylamidosuccinic dinaphthylamide (HELL and POLIAKOFF), 1892, A., 860.
- α -Naphthylamido-*s*-thiobiazolone (HELL and POLIAKOFF), 1892, A., 510.
- Naphthylamidothiobiazolones, α - and β - (FREUND), 1892, A., 511, 508.
- Naphthylamine (*naphthamphthalene*), chloro-*o*-nitro- [m.p. 252°] (CLEVE), 1890, A., 626.
- α -Naphthylamine, manufacture of (WITT), 1887, A., 1048.
- refractive power of, at different temperatures (PERKIN), 1892, T., 303.
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- platinothiocyanate (GUARESCHI), 1892, A., 287.
- α -Naphthylamine, 3'-bromo- (MELDOLA), 1885, T., 508; P., 72.
- 4-bromo- (GUARESCHI), 1884, A., 843; (MELDOLA), 1885, T., 508; P., 72.
- 4' (?) -bromo- (GUARESCHI), 1884, A., 843.
- 2:4-di-bromo- (MELDOLA), 1885, T., 510; P., 72.
- 4:2-dimono-nitro- (MELDOLA), 1885, T., 500; P., 71; (ARMSTRONG and ROSSITER), 1891, P., 186; (MELDOLA and DESCH), 1892, T., 765.
- 2-chloro- and 2:4-di-chloro- (CLEVE), 1887, A., 495.

- α -Naphthylamine,** 1':4'-dichloro- (SCHWEITEN), 1890, A., 620.
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 β -Naphthylamine, action of diazo-compounds on (LAWSON), 1885, A., 802, 1238.
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 δ -Naphthylamine, *di*amido-, hydrochlorides of (LOEWE), 1890, A., 1424.
 1-bromo- (MELDOLA), 1885, T., 508; P., 72; (LEITMANN and SCHMIDT), 1888, A., 289.
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 β -Naphthylamine, 4:1-bromido- (MELDOLA and DESCH), 1892, T., 767; P., 141.
 1-chloro- (CLEVE), 1887, A., 961.
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 α -Naphthylaminebenzylidenesulphonic acid. See α -Naphthyl- ω -imidotoluenesulphonic acid.
 α -Naphthylaminebisdiazobenzene (KROHN), 1889, A., 152.
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 α -Naphthylamine-3:1'-disulphonic acid [c] (ARMSTRONG and WYNNE), 1890, P., 15; (BERNTHSEN), 1890, A., 386; (SCHULTZ), 1890, A., 388.
 α -Naphthylamine-1:1'-disulphonic acid (*Schollkopf uul*) (BERNTHSEN), 1890, A., 386.
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- α -Naphthylamine-4:2'-disulphonic acid** (*Dahl No. III.*), constitution of (ARMSTRONG and WYNNE), 1890, P., 16.
- α -Naphthylamine-4:3'-disulphonic acid** (*Dahl No. II.*), constitution of (ARMSTRONG and WYNNE), 1890, P., 125.
- β -Naphthylamine-1:3'-disulphonic acid** (FORSLING), 1889, A., 276.
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- β -Naphthylamine-1':3'-disulphonic acid** (*Amido-G.-acid*) (LANDSHOFF), 1885, A., 312.
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- β -Naphthylamine-3:2'-disulphonic acid** (*Cassella's δ -acid*), constitution of (ARMSTRONG and WYNNE), 1890, P., 127.
- β -Naphthylamine-3:3'-disulphonic acid** (*Amido-R.-acid*), constitution of (ARMSTRONG and WYNNE), 1890, P., 12.
- β -Naphthylamine-4:2'-disulphonic acid** (*Andersen's acid*) (SCHULTZ), 1890, A., 388; (ARMSTRONG and WYNNE), 1891, A., 27.
- α -Naphthylamine-naphthalein** (VANNI), 1886, A., 68.
- α -Naphthylamine-3'-sulphonamide** (*naphthionamide*) (EKBOM), 1891, A., 578.
- α -Naphthylamine-4-sulphonamide** (CLEVE), 1890, A., 635.
- α -Naphthylamine-4'-sulphonamide** (EKBOM), 1890, A., 994.
- Naphthylaminesulphonic acid, iodo-** (OSTERMAYER), 1885, A., 678.
- α -Naphthylaminesulphonic acid** (*δ -Hirsch acid*) (HIRSCH), 1888, A., 1200.
- α -Naphthylamine-1'-sulphonic acid** (ERDMANN), 1889, A., 156.
- α -Naphthylamine-2-sulphonic acid** (CLEVE), 1892, A., 345.
- α -Naphthylamine-2'-sulphonic acid [δ]** (CLEVE), 1889, A., 155.
- 2-chloro-** (CLEVE), 1892, A., 1479.
- α -Naphthylamine-3-sulphonic acid [γ]** (CLEVE), 1886, A., 1037; 1889, A., 154.
- α -Naphthylamine-4-sulphonic acid** (*naphthionic acid*) (WITT), 1886, A., 364; (ERDMANN), 1889, A., 156.
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- α -Naphthylamine-4-sulphonic acid, 4'-nitro-** (NIETZKI and ZUBELLEN), 1889, A., 511.
- α -Naphthylamine-4'-sulphonic acid** (*naphthalene-4'-sulphonic acid*) (WITT), 1886, A., 551; (LANGE), 1888, A., 160; (ERDMANN), 1889, A., 156.
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- β -Naphthylamine-1'-sulphonic acid** (*Badische-acid*) (FORSLING), 1886, A., 890; 1887, A., 962.
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- β -Naphthylamine-2-sulphonic acid** [δ], and its derivatives (BAYER) and (DUINBERG), 1887, A., 732; (WEINBERG), 1888, A., 160.
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- 1-chloro-** (ARMSTRONG and WYNNE), 1889, P., 36, 48.
- β -Naphthylamine-3'-sulphonic acid** (*Bronner's acid*) (LANDSHOFF), 1885, A., 312; (FORSLING), 1887, A., 375.
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- 1-chloro-** (ARMSTRONG and WYNNE), 1889, P., 36, 48.
- β -Naphthylamine-4'-sulphonic acid** (FORSLING), 1887, A., 963.
- 1-chloro-** (ARMSTRONG and WYNNE), 1889, P., 36, 48.
- β -Naphthylaminesulphonic acids, properties of the four** (GREEN), 1889, T., 36.
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- β -Naphthylamine-3:1':3'-trisulphonic acid** (LANDSBOFF), 1855, A., 312.
- α -Naphthylaspartic acid** (HEIL and POLIAKOFF), 1892, A., 860.
- β -Naphthylbenzoylcyocamine**, and its hydrochloride (GRILS), 1883, A., 669.
- β -Naphthylbenzylamine** (KÖHLER), 1883, A., 50.
- α -Naphthylbenzylcarbamide** (KÜHN and RIESENFELD), 1892, A., 312.
- β -Naphthylbenzylideneamine** (CLAISEN), 1887, A., 494.
- Naphthylbenzylthiocarbamides, α - and β -** (DIXON), 1891, T., 555, 559.
- $\alpha\beta$ -Naphthylcarbamide** (KÜHN and LANDAU), 1890, A., 634.
- α -Naphthylcarbinol (*α -naphthalenylglycol alcohol*)** (BAMBERGER and LODTER), 1888, A., 375.
- β -Naphthylcarbinol** (BAMBERGER and BOCKMANN), 1887, A., 675.
- Naphthylcarbinylamine**. See Naphthylmethylamine.
- α -Naphthylcyanamide** (TIEMANN), 1889, A., 1165; (VOLTMER), 1891, A., 559.
- α -Naphthylidethyamine** (FRIEDLANDER and WELMANS), 1889, A., 151.
- β -Naphthylidethyamine**, hydrogenation of (BAMBERGER and WILLIAMSON), 1889, A., 1000.
- α -Naphthylidethylaminocarboxylic acid** (FRIEDLANDER and WELMANS), 1889, A., 152.
- α -Naphthylidimethylamine and its derivatives** (FRIEDLANDER and WELMANS), 1889, A., 150.
- α -Naphthylidimethylaminocarboxylic acid** (FRIEDLANDER and WELMANS), 1889, A., 151.
- Naphthylidimethylaminesulphonic acid** (FRIEDLANDER and WELMANS), 1889, A., 151.
- Naphthylidimethylpropionic acid** (GUCCI and GRASSI-CRISTALDI), 1892, A., 871.
- Naphthyl-2:5-dimethylpyrrolines, 1: α - and 1: β -** (KNORR), 1887, A., 275.
- 1- β -Naphthyl-2:5-dimethylpyrrolone-3:4-dicarboxylic acid** (KNORR), 1885, A., 555.
- 1: α -Naphthyl-2:5-dimethylpyrrolone-3:4-dicarboxylic acid** (KNORR), 1887, A., 275.
- Naphthylidiphenylamine** (HERZ), 1890, A., 1410.
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- β -Naphthylidiphenylcarbamide** (KYM), 1890, A., 588.
- Naphthyl-2:5-diphenylpyrrolines, 1: α - and 1: β -** (PAAL and BRAIKOFF), 1890, A., 263, 264.
- Naphthylene mercaptan** (EBERT and KLEINER), 1891, A., 460.
- "Naphthylenes"** (MARKOWNIKOFF and OGLOBLIN), 1884, A., 1276.1
- Naphthylene- $\alpha\beta$ -benzenyldiamine** (KOLL), 1891, A., 1289.
- Naphthylenediallylthiocarbamide** (LELMANN), 1886, A., 625.
- 1:1'-Naphthylenediamine (*diamidonaphthalene*)** (HINSBERG), 1889, A., 717.
- 1:2-Naphthylenediamine** (LAWSON), 1885, A., 1238.
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- 1:3-Naphthylenediamine** (URBAN), 1887, A., 674.
- 1:4-Naphthylenediamine** (GRIESS), 1883, A., 183; (WITT), 1887, A., 1048.
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- 2:1'-Naphthylenediamine** (FRIEDLANDER and SZYMANSKI), 1892, A., 1234.
- 2:2'-Naphthylenediamine**, preparation of (BAMBERGER and SCHIEFFELIN), 1889, A., 893.
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- 1:2-Naphthylenediamine-2', -3'- and -4'-sulphonic acids** (WITT), 1889, A., 274.
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- Naphthylenediphenylthiocarbamide** (BAMBERGER and SCHIEFFELIN), 1889, A., 892.
- 1:2-Naphthylene-ethenylamidine and its salts** (PRAGER), 1885, A., 1239; (LELMANN and REMY), 1886, A., 624.
- 4-bromo- and bromonitro- (PRAGER), 1885, A., 1239.
- $\beta\beta$ -Naphthylene-ethenyldiamine** (FISCHER and HEPP), 1887, A., 729.
- Naphthylene-ethyldiamine** (KOCK), 1888, A., 469.
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- 1:2-Naphthylene-methenylamidine and -methylenethenylamidine (FISCHER and WRESZINSKI, 1892, A., 1496.
- β -Naphthylenetoluinoxaline (HILG), 1885, A., 909.
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- β -Naphthylethylamine (HENRIQUE), 1885, A., 168.
- α -nitroso- (FISCHER and HEPP), 1887, A., 1114; 1888, A., 461.
- α -Naphthylethylene (*naphthucianamene*) (BRANDL), 1889, A., 1200.
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- β -Naphthylethylene, chloro- (LEBOY), 1892, A., 495.
- α -Naphthylethylenediamine (NEWMAN), 1891, A., 1208.
- β -Naphthylethylhydrazine (HAUFF), 1890, A., 61.
- β -Naphthylethylidenhydrazine (SCHLIEFER), 1887, A., 153.
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- β -Naphthylglycollic acid (SPICA), 1887, A., 495; (CLATS and TER-REEGEN), 1891, A., 215; (SCHWEITZER), 1891, A., 729.
- α -Naphthylglycollic nitrile (BRANDL), 1889, A., 1200.
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- 1- α -Naphthylglyoxaline and μ -mercaptan and μ -methylsulphide (MARCKWALD), 1892, A., 1331.
- α -Naphthylglyoxylamide (BOES-NECK), 1883, A., 395.
- α -Naphthylglyoxylic acid (*naphthoyl-formic acid*) (BOES-NECK), 1883, A., 593, 808; (CLATS and FEIN), 1887, A., 271.
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- β -Naphthylhydrazine (FISCHER), 1886, A., 555; (HAUFF), 1890, A., 61.
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- β -Naphthylhydrazinepyruvic acid (SCHLIEFER), 1887, A., 153.
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- β -Naphthylmelamine** (FRIES), 1886, T., 740.
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- α -Naphthylmethylic chloride** (SCHERLER), 1892, A., 494.
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- 1: β -Naphthyl-3-methylpyrazolone** (*naphtho-oxymethylquinizine*) (KNORR), 1884, A., 1154.
- 1: α -Naphthyl-3-methyl-5-pyrazolone-keto-4- α -naphthylhydrazone** (SPRAGUE), 1891, T., 342.
- β -Naphthylmethylsulphone** (OTTO and RÖSSING), 1892, A., 623.
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- α -Naphthyl-oxazoneglyoxalcarboxylic acid** (NASTOGGEL), 1889, A., 238.
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- α -Naphthylphthalamic acid and α -naphthylphthalimide** (PUTTI), 1886, A., 473, 472.
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- β -Naphthylpropylene- ψ -semithiocarbamide** (ÄVENARIUS), 1891, A., 550.
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- β -Naphthylsemicarbazide** (PINNER), 1886, A., 687; (HAUFF), 1890, A., 61.
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- Nicotinic acid, 3-bromo-** (CLAUS and COLLINCHONN), 1887, A., 159; (SRPEK), 1890, A., 177.
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 6-chloro- (v. PECHMANN and WELSH), 1885, T., 151; A., 175.
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- isoNicotinic acid** (*pyridin-4-carboxylic acid*; *pyrocinchononic acid*) (WEIDEL and RUSSO), 1883, A., 484; (HANTZSCH), 1884, A., 1194; (BEHRMANN and v. HOFMANN), 1885, A., 139.
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- Nigella damascena**, damascenine from (SCHNEIDER), 1890, A., 1317.
- Nile**, fertilising properties of the water of the (MINTZ), 1889, A., 616.
- Niobate** which has been improperly called euxenite from Mitchell Co., N. Carolina (SEAMON), 1883, A., 32.
- Niobic acid** from fergusonite (KRUS and NILSON), 1887, A., 706.
- Niobic anhydride**. See **Niobium pentoxide**.
- Niobium** potassium fluoride, reduction of, with sodium (KRUS and NILSON), 1887, A., 706.
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- Niobium**, detection and estimation of:—
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- Nipecotinic acid** (*hexahydronicotinic acid*) and its derivatives (LADENBURG), 1891, A., 735; 1892, A., 1485, 1486.
- isoNipecotinic acid** (*hecahydroisonicotinic acid*) (LADENBURG and KRAU; LADENBURG), 1892, A., 1486.
- Nitracenaphthene** (QUINCKE), 1887, A., 592; 1888, A., 843; (JANDRIER), 1887, A., 964.
- diNitracenaphthene** (QUINCKE), 1888, A., 843.
- m-Nitracetaldehydephenylhydrazone** (BISCHLER and BRODSKY), 1890, A., 150.
- isoNitr-p-acetamidoisobutylbenzene** (GELZER), 1888, A., 266.
- diNitr-p-acetamidostyrene** (GABRIEL and HERZBERG), 1883, A., 1123; (HERZBERG), 1885, A., 662.
- Nitr-o-acetamido-p-toluic acid** (NEMENTOWNIK), 1889, A., 1066.
- p-Nitracetanilide**, reduction of (MIXTER), 1884, A., 665.
- diNitracetanilides**, 1:2:3-, 1:3:4- and 1:3:6- (WENDER), 1890, A., 885.
- diNitracetanisidine** (WENDER), 1890, A., 751.
- Nitracetobenzylanilide**. See **Nitrobenzylacetanilide**.
- Nitracetocumidides**, *mono-* and *di-* (ENGEL), 1885, A., 1215.
- Nitracetomethylanilides**, *m-* and *p-* (MELDOLA and SALMON), 1888, T., 777, 776.
- γ -Nitr- α -acetonaaphthalide**, Liebermann's bromination of (MELDOLA), 1885, T., 502.
- diNitr- β -acetonaaphthalide** (MACHKE), 1887, A., 839.
- Nitr- α -acetonaaphthalides**, *o-* and *p-* (LELLMANN), 1884, A., 751, 752; (LELLMANN and REMY), 1886, A., 623.
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- Nitracetonylcarbamide** (FRANCHIMONT and KLOBBER), 1889, A., 125.
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- Nitracetophenonephenylhydrazone** (BISCHLER and BRODSKY), 1890, A., 151.

- Nitracetotoluidide. See Acetotoluidide.
- Nitraceto-*p*-xylylide (NOTTING, WITT and FOHEL), 1886, A., 58; (WITT), 1889, A., 601.
- Nitracetoxypropylbenzoic acid (WIDMAN), 1884, A., 317.
- Nitracetyl- ψ -cumidinesulphonic acid (MAYER), 1887, A., 659.
- α -Nitr- β -acetylnaphthol, molecular transformation of (BUTCHER), 1883, A., 1113.
- o*-Nitracetylphenol (BUTCHER), 1883, A., 1113.
- o*-Nitr-*p*-aldehydocinnamic acid (LOW), 1886, A., 461.
- α -Nitralsarin (BRASCH), 1891, A., 1077.
- di*Nitrallylbenzene (EDELEANT), 1887, A., 583.
- di*Nitramarine and its salts (CLAUS and WITT), 1885, A., 1062.
- di*Nitramidoacetylphenol (SCHIFF), 1886, A., 613.
- Nitramidoanisole (SCHEIDEL), 1886, A., 1046.
- di*Nitr/diamidoanisole (NIEZKI and KURTENACKER), 1892, A., 596.
- Nitramidoazo-compounds, reduction of (MELDOLA), 1883, T., 432.
- di*Nitr-*m*- and -*p*-amidoazobenzene (*nitrobenzeno-onitraniline*) (ODDO), 1891, A., 554.
- 3:4-Nitramidobenzamide (GROHMANN), 1891, A., 305; (THEME), 1891, A., 916.
- 5:2-Nitramidobenzamide (GROHMANN), 1892, A., 326.
- 1:3-*di*Nitr-2:4:6-triamidobenzene (PALMER and JACKSON), 1890, A., 247.
- s-tri*Nitrtriamidobenzene (JACKSON and WING), 1888, A., 1276.
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- 3:5-Nitramidobenzoic acid, action of potassium cyanate on (GRIESS), 1885, A., 54.
- 4:5-Nitramidobenzoic acid (THIEME), 1891, A., 916.
- m*-Nitr-*p*-amidobenzophenone (SCHOPFF), 1892, A., 336.
- tetra*Nitr/diamidobenzophenone (VAN ROMBURGH), 1889, A., 147.
- m*-Nitramidobenzylidene-*m*-nitrobenzenylaminoxime (STIEGLITZ), 1890, A., 256.
- eso*Nitramidoisobutylbenzene (GELZER), 1888, A., 266; 1889, A., 43.
- Nitramidocacrycol benzoate (MAZARBA), 1891, A., 47.
- Nitr- α -amidocinnamic acids, α - and β - (FRIEDLÄNDER and LAZARUS), 1885, A., 1139.
- Nitramidocinnamide v. MILLER and KINKELIN, 1889, A., 990.
- Nitr/diamido-*m*-cresol (NIEZKI and RUPPERT), 1891, A., 309.
- Nitramidodihydroxyquinone, potassium salt of (NIEZKI and BENCKISER), 1885, A., 779.
- Nitr-*p-p*-diamidodiphenyl. See Nitrobenzidine.
- m-di*Nitr-*o*-diamidodiphenyl (TAUBER), 1892, A., 481.
- di*Nitramidodiphenylamine (NIEZKI and ERNST), 1890, A., 1114.
- Nitr/diamidoethenyl- α -naphthol hydrochloride (MEERSON), 1888, A., 713.
- 3:4-Nitramidomethoxybenzene (SCHEIDEL), 1886, A., 1046.
- 3':4'-Nitramido-2'-methylquinoline (CONRAD and LIMPACH), 1888, A., 1111.
- Nitramido- α -naphthoic acid (EKSTRAND), 1886, A., 948.
- Nitramido- β -naphthoic acid [m.p. 235°] (EKSTRAND), 1891, A., 79.
- Nitr-*p*-amido α -nitrostyrene (FRIEDLÄNDER and LAZARUS), 1885, A., 1139.
- tri*Nitramidophenetol (KÖHLER), 1884, A., 1161.
- Nitramidophenol. See Phenol.
- Nitramidophenylisobutyric acid (EDELEANT), 1888, T., 560.
- Nitramidophenylic carbonate (LOWENBERG), 1886, A., 789.
- Nitramidophenyl- α - and - β -naphthylamines (HEIM), 1888, A., 488, 1096.
- 3:5-*di*Nitr-4-amido- β -phenylpropionic acid (STOEHR), 1884, A., 1350.
- di*Nitramidophenyl-*p*-toluidine (ERNST), 1891, A., 300.
- p*-Nitr-*o*-amidophenylurethane (HÄGER), 1885, A., 150; (VAN ROMBURGH), 1892, A., 712.
- 3:6:2:5-*di*Nitr/diamidoquinone (NIEZKI), 1887, A., 930.
- o*-Nitramidostilbene (BISCHOFF), 1888, A., 1094.
- Nitramidotetrahydroxybenzene (NIEZKI), 1884, A., 53.
- 6:3-Nitramido-*p*-toluic acid (FILETI and CROSA), 1889, A., 495.
- Nitramido-*p*-toluic acids, 2:6- and 3:6- (CLAUS and BEYREN), 1892, A., 177.
- Nitramidotoluquinol (KEHRMANN and BRASCH), 1889, A., 970.
- Nitramine of the quinoline group, attempted synthesis of (SIMON-THOMAS), 1892, A., 725.
- Nitramines (FRANCHIMONT and KLOBIE), 1889, A., 492.
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- Nitramines, preparation of, from nitrophenols (BARR), 1888, A., 822.
- 1-Nitr-3'-amyl-2'-hexylquinoline (V. MILLER), 1891, A., 1104.
- Nitrilic acid (2:5-*dinitro*-3:6-*dihydroxyquinone*) (NIETZKI), 1883, A., 465; (LEVY and JEDLICKA), 1889, A., 390.
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- constitution of (HANTZSCH), 1886, A., 1021; (NIETZKI), 1887, A., 134.
- potassium salt of (NIETZKI and BENCKISER), 1885, A., 779.
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- o*-Nitraniidoacetic acid (PLOCHL), 1886, A., 351.
- m*-Nitraniidoacetic acid (PLOCHL and LOE), 1885, A., 899.
- 3:4-Nitraniidobenzanilide (GROHMANN), 1891, A., 305.
- 5:2-Nitraniidobenzanilide (GROHMANN), 1892, A., 326.
- m*-Nitr-*o*- and *p*-anilidobenzenesulphonic acids (FISCHER), 1892, A., 332, 331.
- m*-Nitr-*o*-anilidobenzoic acid (SCHOFFE), 1891, A., 304.
- m*-Nitr-*o*-anilidobenzoic acid (SCHOFFE), 1890, A., 374.
- m*-Nitr-*o*- and *p*-anilidobenzonitriles (SCHOFFE), 1891, A., 305.
- m*-Nitr-*o*- and *p*-anilidobenzophenones (SCHOFFE), 1892, A., 336.
- Nitraniidoisobutyric acid (EDELANT), 1888, T., 560.
- m*-Nitraniido-*p*-hydroxybenzoic acid (SCHOFFE), 1890, A., 375.
- o*-Nitraniido- α -naphthaquinone (LEICESTER), 1890, A., 1446.
- Nitraniidonaphthaquinoneanilide (ZINCKE and KEDEL), 1889, A., 266.
- o*-Nitr- β -anilidopropionic acid, and its derivatives (EINHORN), 1884, A., 304.
- p*-Nitr- β -anilidopropionic acid and its derivatives (BASLER), 1884, A., 1172.
- tri*-Nitr-3-anilidotoluene, 2:4:6- (*trinitrotoluidine*) (BENTLEY and WARREN), 1890, A., 486; (JACKSON and BENILEY), 1892, A., 1218.
- Nitraniidotoluquinone (LEICESTER), 1890, A., 1446.
- 2:4-*di*-Nitraniidotolylamine (ERNSI), 1891, A., 300.
- Nitraniiline. See Aniline.
- Nitraniinesulphonic acid. See Aniline-sulphonic acid.
- di*-Nitransidine (WENDER), 1890, A., 752.
- p*-Nitransoil, reduction of (GATTERMANN and RITSCHKE), 1890, A., 1120.
- Nitransoils, *o*- and *p*-, preparation of (WILLGERODT and FERRO), 1886, A., 345.
- e-di*-Nitransoil (WENDER), 1890, A., 752.
- p*-Nitransylmethylnitrosamine (BERG), 1890, A., 608.
- Nitranthracenes, *mono*-, and *di*- (PERKIN), 1889, P., 13.
- Nitranthranilic acid, bromine derivatives of (DORSCH), 1886, A., 359.
- Nitranthraquinone (ROEMER), 1883, A., 71.
- di*-Nitranthraquinone (ROEMER), 1883, A., 737.
- action of concentrated sulphuric acid on (LIEBERMANN and HAGEN), 1883, A., 72; (LIEBERMANN), 1883, A., 597; (LIFSCHUTZ), 1884, A., 1187.
- α -Nitranthraquinonesulphonic acid and its derivatives (CLAUS), 1884, A., 1040.
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- Nitranthrone, and the action of alcoholic potash on (PERKIN and MACKENZIE), 1892, T., 865, 868.
- Nitrantipyryl (KNORR), 1884, A., 1378; (JANDRIER), 1892, A., 730.
- di*-Nitrapione (CIAMICIAN and SILBER), 1890, A., 1295.
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- Nitration (MEYER), 1889, A., 387.
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- Nitratopurpleorhodium chloride, dithionate and nitrate (JORGENSEN), 1887, A., 114.
- Nitratropine (EINHORN and FISCHER), 1892, A., 1014.
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- Nitre. See Potassium nitrate.
- Nitrethane. See Ethane.
- Nitrethenyl-*o*-amidobenzamide (DEHOFF), 1890, A., 802; 1891, A., 84; (THIEME), 1891, A., 917.

- Nitroethoxybenzamide (THIEME), 1891, A., 916.
- Nitroethoxybenzoic acid (THIEME), 1891, A., 916.
- Nitroethoxybenzonitrile (LOBBY DE BRUYN), 1885, A., 657.
- di*Nitroethoxydiphenyl (HIRSCH), 1889, A., 511.
- di*Nitroethoxydiphenylamine (SCHOFFE), 1889, A., 773.
- di*Nitroethoxyethylhydroquinoline (KOHN), 1886, T., 509.
- 1-Nitr- β -ethoxynaphthalene, and action of ammonia on (WITKAMPF), 1884, A., 1036.
- 1'-4'-*di*Nitr- β -ethoxynaphthalene (ONCZKOWICZ), 1891, A., 321.
- m*-Nitroethoxyphenyl/bromonitroethane (FRIEDMANDE and LAZARUS), 1885, A., 1135.
- Nitr-3-ethoxytoluene, 4:6-*di*- and 2:4:6-*tri*- (STAEDEL and KOLN), 1891, A., 187.
- p*-Nitroethylacetanilide (NOLTING and COLLIN), 1884, A., 1013.
- Nitroethylacetothienone (SCHLEHER), 1886, A., 227.
- m*-Nitroethylaceto-*p*-toluidide (NIE-MENTOWSKI), 1887, A., 938.
- o*-Nitroethylaniline (HEMPER), 1889, A., 600; 1890, A., 611.
- di*Nitroethylaniline (HEMPER), 1889, A., 600.
- m*-Nitroethylbenzaloximes, stereo-isomeric (GOLDSCHMIDT and KJELLIN), 1891, A., 1478.
- Nitroethylbenzaloximes, *m*- and *p*- (GOLDSCHMIDT and KJELLIN), 1891, A., 1478, 1477.
- m*-Nitroethylbenzenylamidine (LOUSEN), 1892, A., 52.
- p*-Nitroethylbenzenyloxime nitrite (WEISE), 1890, A., 46.
- Nitr-*p*-ethylbenzoic acid and its salts (ASCHENBRANDT), 1883, A., 320.
- m*-Nitr- α -ethylcinnamaldehyde (v. MILLER and ROHDE), 1889, A., 984.
- di*Nitroethylenecarbamide (FRANCHIMONT and KLOBBE), 1888, A., 1180.
- tetra*Nitroethylenic bromide (*dibromo-tetra*nitroethane) (LOSANITSCH), 1883, A., 564; (VILLIERS), 1884, A., 33.
- Nitroethylenic glycol, magnetic rotatory power of (PERKIN), 1889, T., 684, 726.
- di*Nitroethylhydro-*p*-coumaric acid (STOEHR), 1884, A., 1350.
- Nitroethylic alcohol (DEMUTH and MEYER), 1889, A., 366; 1890, A., 857.
- sodium salt of (DEMUTH and MEYER), 1890, A., 858.
- Nitroethylic chloride (DEMUTH and MEYER), 1890, A., 858.
- di*Nitroethylenephthalide (GABRIEL), 1886, A., 620.
- tri*Nitroethyl- α - and - β -naphthols (STAEDEL), 1883, A., 863.
- p*-Nitroethylphenylnitrosamine (MELDOLA and STREATFIELD), 1896, T., 631.
- m*-Nitroethyl-*p*-toluidine (NOLTING and STRICKER), 1886, A., 511; (NOLTING and ABR), 1888, A., 274.
- Nitric acid, anhydride, oxide and peroxide. See under Nitrogen.
- Nitric organism. See Microbes.
- Nitrates, action of hydroxyhydrocarbon derivatives on (VIDAL), 1891, A., 1003.
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- Nitrile bases, formation of, from organic acids and amines (BERNHARDT), 1883, A., 1099.
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- Nitriles**, action of hydroxylamine on (TIEMANN, 1884, A., 734.
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- Nitriles**, chloro-, volatility of (HENRY), 1885, A., 1044.
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- Paranitriles** (MOHLAU), 1883, A., 342.
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- Nitrobenzaldoxime**. See Benzaldoxime.
- m-Nitrobenzamide**, silver derivative of (TAFEL and ENOCH), 1890, A., 973.
- m-Nitro-m-benzamidobenzamide** (SCHULZE), 1889, A., 779.
- Nitrobenzene**. See Benzene.
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- Nitrobenzene-p-diazopiperidine** (WALLACH), 1887, A., 131.
- Nitrobenzenohomo-o-phthalopropyl-imide** (LE BLANC), 1889, A., 256.
- m-Nitrobenzenesulphinic acid** (LIMPRICHT), 1887, A., 723.
- 2:4-d-Nitrobenzenesulphonic acid** (WILLGERODT and MOHR), 1885, A., 665; 1886, A., 1030.
- tri-Nitrobenzenesulphonic acid** (WILLGERODT), 1885, A., 1232.
- m-Nitrobenzenylamidine** (TAFEL and ENOCH), 1890, A., 973.
- m-Nitrobenzenylamidoxime** and its derivatives (SCHOPFF), 1885, A., 896, 1217.
- p-Nitrobenzenylamidoxime** (WEISE), 1890, A., 44.
- p-Nitrobenzenylamidoxime-ethylidene** (WEISE), 1890, A., 46.
- p-Nitrobenzenylazoximeacetylenyl** (WEISE), 1890, A., 46.
- m-Nitrobenzenylazoximebenzenyl** and its derivatives (SCHOPFF), 1885, A., 897, 1217.
- p-Nitrobenzenylazoximebenzenyl** (WEISE), 1890, A., 45.
- m-Nitrobenzenylazoxime-ethenyl** (SCHOPFF), 1885, A., 897.
- p-Nitrobenzenylazoxime-ethenyl** (WEISE), 1890, A., 45.
- m-Nitrobenzenylazoxime-m-nitrobenzenyl** (SIEGLITZ), 1890, A., 256.
- m-Nitrobenzenyldioxytetrazotic acid** (LOSEN and NEUBERT), 1891, A., 1040.
- p-Nitrobenzenylimidoximecarbonyl** (WEISE), 1890, A., 45.
- Nitrobenzidine**, *m-mono-* and *m-di-* (TAUBER), 1890, A., 782.
- di-Nitrobenzidine** (V. BANDROWSKI), 1888, A., 236.
- m-d-Nitrobenzidine-m-sulphonic acid** (ZEHR), 1891, A., 313.
- Nitrobenzil** and its dioximes (HAUSMANN), 1890, A., 624.
- iso-d-Nitrobenzil**, reduction of (GOLUBEFF), 1885, A., 660.
- m-Nitrobenzimidoeethyl ether** (TAFEL and ENOCH), 1890, A., 973.
- p-Nitrobenzenylamide** (HAFNER), 1889, A., 982; 1890, A., 436.
- Nitrobenzobromamides**, *o-*, *m-* and *p-* (HOUGEWEIFF and VAN DORP), 1889, A., 982.
- m-Nitrobenzoic acetic anhydride** (GREENE), 1890, A., 53.
- o-Nitrobenzoic acid**, derivatives of (BISCHOFF and RACH), 1885, A., 263.
- Nitrobenzoic acids**, *o-*, *m-* and *p-*, conversion of the three nitranilines into (SANDMEYER), 1885, A., 981.
- m-Nitrobenzoic anhydride** (SCHULZE), 1889, A., 779.
- p-Nitrobenzoic sulphinide** (NOYLS), 1886, A., 804.
- o-Nitrobenzonitrile** (MEYER), 1886, A., 63.
- m-Nitrobenzonitrile** (GABRIEL), 1883, A., 916; (SCHOPFF), 1885, A., 896.
- Nitrobenzophenone**. See Benzophenone.
- p-Nitrobenzophenylhydrazide** (HAUSKNECHT), 1889, A., 507.
- p-Nitrobenzo-p-toluidide** (GATTERMANN and NEUBERG), 1892, A., 889.

- p*-Nitrobenzoylacetic acid and its derivatives PERKIN and BELLENOT, 1884, A., 1023; 1885, A., 794; 1886, T., 440; P., 103.
- o*-Nitrobenzoylacetone (FISCHER and KUZEL), 1884, A., 60; (GEVEROHT), 1884, A., 445.
- p*-Nitrobenzoylcarbinol (ENGLER and ZIELKE), 1889, A., 505.
- α -Nitro- β -benzoylnaphthol, molecular transformation of (BOTICHER), 1888, A., 1113.
- m*-Nitrobenzoylpiperidine and its derivatives (SCHOLLEN), 1888, A., 1105.
- Nitrobenzoylresorcinol (ERLERA), 1886, A., 51.
- p*-Nitrobenzoyl-tetramethylene- and -trimethylene-carboxylic acids PERKIN and BELLENOT, 1885, A., 795.
- Nitrobenzyl ether, *o*-, *m*- and *p*- (ERLERA), 1889, A., 218.
- tri*-Nitrobenzyl methyl ketone DITTRICH, 1890, A., 1419.
- p*-Nitrobenzylacetamide AMEL and V. HOFMANN, 1886, A., 608; (HAFNER), 1889, A., 982; 1890, A., 486.
- o*-Nitrobenzylacetanilide (PAAL and KRECKE), 1890, A., 1413.
- p*-Nitrobenzylacetanilide (MELDOLA and SALMON), 1888, T., 779.
- o*-Nitrobenzylacetomethylamide (GABRIEL and JANSEN), 1892, A., 218.
- Nitrobenzylamine. See Benzylamine.
- o*-Nitrobenzylaniline and its derivatives (LELLMANN and STICKEL), 1886, A., 793.
- reduction of (PAAL and KRECKE), 1890, A., 1444.
- m*-Nitrobenzylisobenzaldoxime (BEHREND), 1892, A., 50.
- p*-Nitrobenzylisobenzaldoxime, modifications of (BEHREND and KONIG), 1890, A., 1412.
- o*-Nitrobenzylbenzamide (GABRIEL and JANSEN), 1890, A., 1442.
- o*-Nitrobenzylcarbamide (GABRIEL and JANSEN), 1892, A., 218.
- p*-Nitrobenzylcarbamide (HAFNER), 1889, A., 982; 1890, A., 486.
- o*-Nitrobenzylcyanocamphor (HALLER), 1891, A., 1499.
- Nitrobenzyldeoxybenzoins, *o*- and *p*- (BUDDEBERG), 1890, A., 1142.
- m*-Nitrobenzyl dimethylamine (BORG-MANN), 1886, A., 57.
- o*-Nitrobenzylethyl-*o*-amidophenyl hydrochloride (LELLMANN and BOYE), 1890, A., 1116.
- o*-Nitrobenzylformamide (GABRIEL and JANSEN), 1890, A., 1444.
- o*-Nitrobenzylformanilide (PAAL and BUCHHEIM), 1890, A., 72.
- o*-Nitrobenzylformo-*o*- and -*p*-toluidides (PAAL and BUCHHEIM), 1890, A., 74, 78.
- m*-Nitro- β -benzylhydroxylamine (BEHREND), 1892, A., 51.
- p*-Nitrobenzyl alcohol (HAFNER), 1890, A., 486.
- preparation and condensation products of (EASLER), 1884, A., 310.
- Nitrobenzyl chloride, reduction of (PELIZZARI), 1885, A., 770.
- o*-Nitrobenzyl chloride (ABELLI), 1883, A., 1092; (KIMMEL), 1884, A., 1004; (NOLTING), 1881, A., 1005; 1885, A., 52.
- m*-Nitrobenzyl chloride (ABELLI), 1883, A., 1092.
- p*-Nitrobenzyl chloride (KIMMEL), 1884, A., 1004.
- Nitrobenzyl iodides, *o*- and *p*- (KIMMEL), 1884, A., 1004.
- p*-Nitrobenzyl nitrate (SRAEDEL), 1883, A., 866.
- p*-Nitrobenzyl picrate (KIMMEL), 1884, A., 1005.
- p*-Nitrobenzylideneamidophenyltolylamine (REICHOLD), 1890, A., 610.
- o*-Nitrobenzylideneazine (CURTIS and JAY), 1889, A., 303.
- m*-Nitrobenzylidenabenzidine (SCHIFF and VANNI), 1890, A., 1298.
- m*-Nitrobenzylidenedimethyldisulphone (BONGAERTZ), 1886, A., 938.
- Nitrobenzylidenemalonie acid. See Benzylidenemalonie acid.
- m*-Nitrobenzylidene-2'-methylindole (FISCHER), 1888, A., 284.
- 3-Nitrobenzylidene-2'-methylquinoline (WARTANIAN), 1891, A., 330.
- 4-Nitrobenzylidene-2'-methylquinoline (BULACH), 1887, A., 976.
- m*-Nitrobenzylidene-4'-methylquinoline (HEYMANN and KOENIGS), 1888, A., 838.
- Nitrobenzylidenephthalimidine (GABRIEL), 1886, A., 630.
- m*-Nitrobenzylidene-*p*-xylylene (PFEIG), 1890, A., 606.
- p*-Nitrobenzylidene chloride, preparation of (ZIMMERMANN and MULIER), 1885, A., 771.
- p*-Nitrobenzyl-*p*-nitroisobenzaldoxime (BEHREND and KONIG), 1891, A., 1034.
- Nitrobenzyl-*d*-nitro-*o*-cresol and -*d*-nitrophenol (SALDILL), 1883, A., 864.
- Nitrobenzylphosphinic acid (LITTHAUER), 1889, A., 1165.
- o*-Nitrobenzylphthalimide (GABRIEL), 1887, A., 1037.

- m*-Nitrobenzylphthalimide (GABRIEL and HENDEN), 1889, A., 144.
p-Nitrobenzylphthalimide (HAFNER), 1884, A., 952; (SALKOWSKI), 1889, A., 1174.
*di*Nitro-*m*-benzyltoluene (SENF), 1884, A., 427.
o-Nitrobenzyl-*p*-toluidine and its derivatives (LELLMANN and STICKEL), 1886, A., 793.
 Nitrobenzyl-*m*-xylidine (JABLIN-GONNET), 1892, A., 1320.
*penta*Nitrobisazobenzenephénylhydrazine (WILLGERODT and MUE), 1892, A., 456.
 Nitrobrucine (HANSSEN), 1886, A., 564.
*di*Nitrobutane and its salts (CHANCEL), 1893, A., 915; 1885, A., 647.
 Nitrobutane, tertiary (BEWAD), 1891, A., 653.
*di*Nitroisobutylaniline (BARR), 1888, A., 823.
 Nitro-*tert*-butylbenzene (SEŃKOWSKI), 1890, A., 1296.
m-Nitroisobutylbenzene (GELZER), 1889, A., 43.
 Nitro-*p*-isobutylphenol (GELZER), 1889, A., 43.
*tri*Nitro-*m*-isobutyltoluene (BAUR), 1890, A., 1401; 1891, A., 1464.
*tri*Nitroisobutyl-*m*-xylene (BAUR), 1890, A., 1402.
 Nitrocampholenic acid (KACHLER and SPIEZER), 1883, A., 1003.
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 Nitrocarbamidobenzoic acids. See Nitrumamidobenzoic acid.
 Nitrocarbazole (MAZZARA), 1891, A., 570.
 Nitrocarbonyl-*o*-amidophenol (v. CHELMICKI), 1891, A., 52.
 1-Nitrocarbostyryl (v. MILLER and KINKELIN), 1889, A., 990.
 Nitrocarbostyryl, α -, β - and γ - (FRIEDLANDER and LAZARUS), 1885, A., 1139.
*di*Nitrocarvacrol (MAZZARA), 1891, A., 47.
 Nitrocasein, use of, in dyeing (DOLLIS), 1884, A., 1449.
 Nitrocellulose (CROSS and BEVAN), 1883, T., 23; (NEVILLEFOLD), 1887, A., 792.
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p-Nitrocinnamaldoxime (EINHORN and GEHRENECK), 1890, A., 161.
o-Nitrocinnamhydrazoine (CORNELIUS and HOMOLKA), 1886, A., 1026.
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o-Nitrocinnamoylacetone (FISCHER and KUZEL), 1883, A., 587, 588.
o-Nitrocinnamoylactaldehyde (EINHORN), 1884, A., 1346.
o-Nitrocinnamoylformic acid (v. BAYER and DREWSEN), 1883, A., 341.
*tri*Nitrocitrotrianil (SCHNEIDER), 1888, A., 465.
 Nitrocobalt (SABATIER and SENDERENS), 1892, A., 1390.
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 Nitrocopper (SABATIER and SENDERENS), 1892, A., 1390.
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o-Nitrocoumarin (v. MILLER and KINKELIN), 1889, A., 989.
m-Nitrocoumarin (TAEGER), 1887, A., 939; 1891, A., 918.
o-Nitrocoumarinic acid (v. MILLER and KINKELIN), 1889, A., 989.
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*tri*Nitroresotic acid. See *tri*Nitrohydroxy-*m*-toluic acid.
 Nitroresorcinol. See Nitro-2:4-dihydroxytoluene.
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m-Nitro- ψ -cumenol (ATWERS), 1886, A., 144.
 2:5-*di*Nitro- ψ -cumenol (ATWERS), 1885, A., 381; 1886, A., 144.
 Nitro- ψ -cumidinesulphonic acid (MAYER), 1887, A., 953.
o-Nitrocuminaldehyde (*o*-nitro ψ -cuminol) (EINHORN and HESS), 1884, A., 1352.
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 Nitro- ψ -cumo-quinol and -quinone (NEF), 1887, A., 255; 1888, T., 438.
m-Nitro- α -cumylacetaldehyde (v. MILLER and ROLDE), 1889, A., 964.
 Nitrocumylacrylic acid. See Cumylacrylic acid.
m-Nitro- ψ -cumylic nitrate (AUWERS), 1885, A., 380.
m-Nitrocyananiline (SENF), 1887, A., 929.
o-*di*Nitrocyano-*s*-diphenylethane (*nitrocyandiphenyl*) (BAMBERGER), 1887, A., 131.
 Nitrocyano-*m*-xylene (AHRENS), 1892, A., 1437.
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 Nitrocymene- α -sulphonamide (ERRERA), 1890, A., 1287.

- 6-Nitro-*p*-cymene-2-sulphonic acid and an isomeride (ERRERA), 1890, A., 1287, 1288; 1891, A., 1066.
- 2:6-*di*Nitrocyimidine, constitution of (MAZZARA), 1890, A., 753.
- Nitro-*m*-isocymidine (KELBE and WARTH), 1884, A., 47.
- Nitrodehydropiperidylmethyleurethane (SCHOTTEN), 1883, A., 814.
- Nitrodehydropiperidylurethane and its bromhydroxyl-derivative (SCHOTTEN), 1883, A., 814.
- p*-Nitrodeoxybenzoin (PERRENKRO-KRITSCHENKO), 1892, A., 1227.
- p*-Nitrodeoxybenzoinoxime (NEY), 1883, A., 1197.
- Nitro-derivatives, method of preparing (ARMSTRONG and ROSSITER), 1891, P., 91.
- preparation of secondary and tertiary, from halogen derivatives of nitromethane and nitroethane (BEWAD), 1889, A., 1123.
- magnetic rotation of (PERKIN), 1889, T., 687, 724.
- connection between the magnetic rotation and the refraction and dispersion of light by (GLADSTONE and PERKIN), 1880, T., 750; P., 114.
- first product of the reduction of, by stannous chloride (HOFFMANN and MEYER), 1892, A., 291; (WILLGERODT), 1892, A., 594; (KIRPAL), 1892, A., 1067.
- additive-products of, with hydrocarbons (HEPP), 1883, A., 317.
- explosive decomposition of (BERTHELOT), 1888, A., 216.
- of the adipic hydrocarbons, Geuther's views on the constitution of (MEYER), 1888, A., 570.
- of alcohol radicles, action of alkali on (SOKOLOFF), 1889, A., 365.
- coloured, constitution of (ARMSTRONG), 1892, P., 101.
- fatty (KOLOTOFF), 1889, A., 1140; (MEYER), 1892, A., 575.
- of the paraffin series, action of alkalis on (DUNSTAN and DYMOND), 1891, T., 410; P., 77.
- action of zinc ethyl on primary and secondary (BEWAD), 1889, A., 1127.
- di*Nitro-derivatives, reaction for (JANOVSKY), 1891, A., 653.
- Nitro- α -diacetonaphthalides, *mono*- and *p*- (LELLMANN and REMY), 1886, A., 624.
- 2-Nitro-1:4-diaceto- α -naphthylenediamide (KLEEMANN), 1886, A., 472.
- Nitrodiaacetotolylene-*o*-diamides, *mono*- and *di*- (BINTZYKI and ULFFER), 1892, A., 1197.
- 3-Nitrodiaacetyl-*p*-amidophenol (HAHLE), 1891, A., 430.
- m*-*di*Nitrodiaacetylbenzidine-*m*-sulphonic acid (ZEHR), 1891, A., 313.
- Nitrodiaacetylresorcinol (ERRERA), 1886, A., 51.
- Nitrodiazo-. See Diazo- under Azo-.
- m*-Nitrodibenzamide (LOESEN), 1892, A., 52.
- Nitrodibenzotolylenediamide (BINTZYKI and ULFFERS), 1892, A., 1197.
- di*Nitrodibenzoyl-*p*-oxydiphenylamine (PHILIP and CALM), 1885, A., 156.
- Nitrodibenzoylresorcinols, *mono*-, and *tri*- (ERRERA), 1886, A., 50, 51.
- Nitrodibenzoylstyrene (JAPP and KLINGEMANN), 1890, T., 676.
- m*-*di*Nitrodibenzylbenzene (BECKER), 1883, A., 203.
- p*-*di*Nitrodibenzylbenzene (BASLER), 1884, A., 310.
- p*-*di*Nitrodibenzylcarbamide (HAFNER), 1889, A., 982.
- Nitrodibenzylhydroxylamine, oxidation of (BEHREND and KONIG), 1892, A., 1456.
- o*-Nitrodibenzyllic *mono*- and *di*-sulphides (JAHODA), 1890, A., 487, 488.
- di*Nitrodibenzylidene*lithio*xamide (EPHRAIM), 1891, A., 831.
- m*-Nitrodibenzylmethylamine (BORG-MANN), 1886, A., 56.
- di*-*o*-Nitrodibenzylmethylamine (GABRIEL and JANSEN), 1892, A., 218.
- p*-*di*Nitrodibenzylthiocarbamide (HAFNER), 1890, A., 487.
- Nitrodicresol - (*nitrodihydroxyditolyl*) (LOEWENHERZ), 1892, A., 852.
- di*Nitrodicresol (DENTINGER), 1883, A., 838.
- di*Nitrodiethenyl*tetramidoditolyl* (BANKIEWICZ), 1888, A., 1184.
- Nitro-1:4-diethoxybenzenes, *mono*-, *di*-, and *tri*- (NIETZKI), 1883, A., 466.
- tri*Nitro-1:4-diethoxybenzene, actions of (NIETZKI and KAUFMANN), 1892, A., 314.
- m*-Nitrodiethylaniline (GROLL), 1886, A., 347.
- p*-Nitrodiethylaniline (LIPP-MANN and FLEISSNER), 1888, A., 868, 1100.
- di*Nitrodiethylaniline (LIPP-MANN and FLEISSNER), 1884, A., 179.
- Nitrodiethylbenzamide (VAN ROMBURGH), 1886, A., 546.
- di*Nitrodihydroxyanisole (NIETZKI and KURTENACKER), 1892, A., 596.

- tetra*Nitro-1:3⁽²⁾-dihydroxybenzene (HENRIQUES), 1883, A., 327, 329.
- Nitro-*p*-dihydroxydiphenyl/*ichlor*ethanes, *di*- and *tetra*- (ELBS and HOERMAN), 1889, A., 998.
- 3-Nitro-2:4-dihydroxypyridine-5- or 6⁽¹⁾-carboxylic acid (BISCHOFF), 1889, A., 519.
- Nitro-2:5-dihydroxyquinone (NIETZKI and SCHMIDT), 1889, A., 968.
- 2:5-*di*Nitro-3:6-dihydroxyquinone. See Nitranilic acid.
- di*Nitro-2:4-dihydroxytoluene (*dinitro-cresorcinol*) (V. KOSTANECKI), 1888, A., 264.
- 4-Nitro-3:6-dihydroxytoluquinone (*tolunitranilic acid*) (KEHRMANN), 1888, A., 940; (KEHRMANN and BRASCH), 1889, A., 969.
- m*-Nitro-*p*-dihydroxytriphenylmethane (DEVARDA and ZENONI), 1891, A., 1346.
- di*Nitro-*p*-dihydroxytriphenylmethane (RUSSANOFF), 1891, A., 1285.
- tetra*Nitrodimethylamidobenzophenone (VAN ROMBURGH), 1888, A., 1079, 1197.
- di*Nitrodimethylamidodiphenylamine (*nitrodimethylphenylphenylnediamine*) (LELLMANN and MACK), 1890, A., 1410.
- di*Nitrodimethylamidophenol and its derivatives (LIPPMANN and FLEISSNER), 1886, A., 235.
- Nitrodimethylamine, reduction of (FRANCHIMONT), 1885, A., 963.
- Nitrodimethylaniline. See Dimethylaniline.
- Nitrodimethyl-*o*-anisidines, *mono*- and *tri*- (GRIMAU and LEFVRE), 1891, A., 1031.
- tetra*Nitrodimethylazobenzene (MERTENS), 1886, A., 1022.
- Nitrodimethylbenzamide (VAN ROMBURGH), 1886, A., 546.
- tetra*Nitrodimethylbenzidine (VAN ROMBURGH), 1887, A., 245.
- Nitro-2:4-dimethylbenzoic acid (AHRENS), 1892, A., 1437.
- 3-Nitro-2:4-dimethylbenzoic acid (CLAUS), 1890, A., 980.
- 3:5-*di*Nitro-2:4-dimethylbenzoic acid (CLAUS), 1890, A., 981.
- di*Nitrodimethylmalonamide (FRANCHIMONT), 1886, A., 449.
- tetra*Nitrodimethyl/*nitro*/*lamido*-benzophenone (VAN ROMBURGH), 1888, A., 1079, 1196.
- di*Nitrodimethyloramide (FRANCHIMONT), 1886, A., 446.
- 4-Nitrodimethyl-*o*-phenylenediamine (HERM), 1888, A., 1097.
- 2:4:6-(²)*tri*Nitrodimethyl-*m*-phenylenediamine (VAN ROMBURGH), 1888, A., 1185.
- 4-Nitro-1:3-dimethylquinoline (NOLTING and TRAUTMANN), 1891, A., 328; 1892, A., 729.
- Nitrodimethyl-*o*-resorcylic acid (*nitrodimethoxybenzoic acid*) (MEYER), 1888, A., 148.
- di*Nitro-*s*-dimethylsulphonamide (FRANCHIMONT and KLOBBE), 1885, A., 969.
- di*Nitro-*β*-dinaphtholdisulphonic acid (JULIUS), 1888, A., 161.
- Nitrodinaphthyls, *mono*- and *di*- (JULIUS), 1887, A., 56.
- tetra*Nitro-*ββ*-dinaphthyl (SRAUB and SMITH), 1885, T., 103.
- di*Nitro-*di*-*β*-naphthyl ketone oxide (CLAUS and RUPPEL), 1890, A., 510.
- Nitro-*di*-*β*-naphthylamines, *di*- and *tetra*- (RIS and WEBER), 1884, A., 752; (RIS), 1888, A., 58.
- hexa*Nitro-*di*-*β*-naphthylamine (RIS), 1888, A., 58.
- tetra*Nitro-*α*- and -*β*-naphthylcarbamides (PERKIN), 1892, T., 467.
- Nitro-*di*-*β*-naphthylene oxides, *mono*- and *tetra*- (HODGKINSON and LIMPACH), 1891, T., 1100.
- di*Nitro-*αβ*-dinaphthyl sulphide (EKSTRAND), 1885, A., 171.
- p*-Nitro-3:3'-diphenic acid (*nitrodiphenylcarboxylic acid*) (STRASBURGER), 1884, A., 329.
- 3:3'-*di*Nitro-*p*-diphenol (KUNZE), 1899, A., 262.
- 1:2-*di*Nitrodiphenyl (TALBER), 1891, A., 570.
- 1:3-*di*Nitrodiphenyl (BRUNNER and WITT), 1887, A., 673.
- p*-*di*Nitrodiphenylacetylene (ELBS and BAUER), 1887, A., 152.
- Nitrodiphenylamine. See Diphenylamine.
- di*Nitrodiphenylamine-*o*-carboxylic acid and its derivatives (JORDAN), 1885, A., 988.
- m*-Nitrodiphenylamine-*p*-carboxylic acid (SCHOFF), 1890, A., 374.
- Nitrodiphenylbenzylidenemalimidine (COHN), 1892, A., 487.
- tri*Nitrodiphenylbenzylphosphine oxide (DURKEN), 1888, A., 833.
- m*-Nitro-*s*-diphenylcarbamide (LEUCKART), 1890, A., 760.
- p*-Nitro-*s*-diphenylcarbamide (GOLDSCHMIDT and MOLINARI), 1888, A., 1285; (LEUCKART), 1890, A., 760.
- m*-*di*Nitro-*s*-diphenylcarbamide (LOBANITSCH), 1888, A., 583.

- p*-*di*Nitrodiphenyldibutynyl ketone (EINHORN and GEHRENBECHE), 1890, A., 162.
- m*-*di*Nitrodiphenyldisulphine (LEBOM), 1891, A., 567.
- p*-*di*Nitro-*s*-diphenylethane, preparation of (ROSER), 1887, A., 836.
- Nitro-*as*-diphenylethanes, *mono*- and *di*- (ANSCHÜTZ and ROMIG), 1885, A., 768.
- Nitrodiphenylformamidine *m*-*mono*- and *m*-*di*- (COMSTOCK and WHEELER), 1892, A., 706, 707.
- Nitrodiphenylguanidine *dicyanide* (HIRSCH), 1888, A., 947.
- α -*di*Nitro-*s*-diphenylhydrazine (WILLGERODT and FERRO), 1888, A., 829; (WILLGERODT and HERMANN), 1889, A., 1160; 1890, A., 1259.
- tri*Nitro-*s*-diphenylhydrazine (FISCHER), 1890, A., 40.
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- m*-Nitrodiphenylazindihydroxytartaric acid (BISCHLER and BRODSKY), 1890, A., 151.
- Nitrodiphenylmethane. See Diphenylmethane.
- m*-Nitro-*s*-diphenylmethylcarbamide (LELLMANN and BENZ), 1891, A., 1215.
- Nitrodiphenylmethylcarbinol (ANSCHÜTZ and ROMIG), 1885, A., 768.
- Nitro-1-5-diphenyl-3-methylpyrazoles, *o*- and *p*- (KNORR and JUDICKE), 1885, A., 1247, 1248.
- tri*Nitro-1-3-diphenyl-5-methylpyrazole (KNORR and LAUBMANN), 1889, A., 409.
- Nitro-1-5-diphenyl-3-methylpyrazole-4-carboxylic acids, *o*- and *p*- (KNORR and JUDICKE), 1885, A., 1247, 1248.
- Nitrodiphenyl- $\alpha\beta$ -naphthatriazines, *o*-, *m*- and *p*- (MELDOLA and FÖRSTER), 1891, T., 681.
- o*-Nitrodiphenylnitrosamine (FISCHER), 1892, A., 332.
- Nitrodiphenyloxalylguanidine (HIRSCH), 1888, A., 947.
- Nitrodiphenylparabanic acid (HIRSCH), 1888, A., 947.
- di*Nitrodiphenylparabanic acid (V. STOJENTIN), 1885, A., 1195.
- di*Nitrodiphenylphosphinic acid (DÖRKEN), 1888, A., 833.
- di*Nitrodiphenylphosphonic acid (RAPPE), 1884, A., 1937.
- p*-*di*Nitrodiphenylpiperazine (SCHMIDT and WICHMANN), 1892, A., 210.
- di*Nitro-2-3-diphenylpyrazine (MASON), 1889, T., 101.
- Nitrodiphenylquinols, *di*-, *tri*- and *tetra*- (NIETZKI and SCHUNDELEN), 1892, A., 310.
- Nitrodiphenylresorcinols, *tetra*-, *pent*- and *hexa*- (NIETZKI and SCHUNDELEN), 1892, A., 310.
- m*-Nitrodiphenylsemithiocarbazide (BISCHLER and BRODSKY), 1890, A., 151.
- di*Nitrodiphenylsulphoxide (COLBY and McLOUGHLIN), 1887, A., 372.
- Nitrodiphenyltetrazine (RUEHMANN), 1890, T., 51.
- Nitro-*s*-diphenylthiocarbamides, *mono*- and *di*-, action of iodine on (LOSNITZSCH), 1883, A., 582.
- Nitrodiphenylthiocarbimides. *m*-*mono*- and *m*-*di*- (STEUDEMANN), 1883, A., 801.
- Nitrodiphenyl (GRAEBE and GUYE), 1886, A., 882.
- Nitrodiphenylethanes, *mono*- and *di*- (GABRIEL), 1886, A., 620.
- di*Nitrodipiperonylideneacetone (HABER), 1891, A., 705.
- di*Nitrodipropylaniline (VAN ROYBURGH), 1889, A., 971.
- di*Nitro-*p*-dipropylbenzene (KORNER), 1883, A., 321.
- di*Nitroresorcinol (HAZURA), 1883, A., 1114.
- p*-Nitrodistyryl ketone (v. BAEYER and BECKER), 1883, A., 1120.
- di*-*o*-Nitrodistyrylvinyl ketone (DIEHL and EINHORN), 1885, A., 1222.
- di*Nitro-*o*-ditolyl, preparation of (TATBER and LOEWENHERZ), 1891, A., 1491.
- di*Nitroditolyl ketone (LANGE and ZUFALL), 1892, A., 1460.
- di*Nitroditolylethylenediamine (GATTERMANN and HAGER), 1884, A., 1142.
- Nitro-*o*- and *p*-ditolyltetrazines (RUEHMANN), 1890, T., 54, 51.
- Nitro-*p*-ditolylthiocarbamides, *o*- and *di*- (STEUDEMANN), 1894, A., 308, 307.
- Nitroethane. See Ethane.
- Nitrofluorene (HODGKINSON), 1885, P., 37.
- p*-Nitrofluorene (STRASBURGER), 1894, A., 754.
- m*-Nitroformanilide (COMSTOCK and WHEELER), 1892, A., 706.
- p*-Nitroformanilide (OSBORNE and MIXTER), 1887, A., 250.
- Nitrofurfurylamine (DELMANN), 1892, A., 43.
- Nitrogen (GATTIER), 1888, A., 1127.
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- Nitrohemipinic anhydride (GRUNE), 1887, A., 49.
- Nitroheptylbenzene (AUGER), 1887, A., 816.
- Nitrohexane (KONOWALOFF), 1892, A., 575.
- Nitrohydantoin (FRANCHIMONT and KLOBBIE), 1888, A., 1179.
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- Nitrohydrobromic acid, action of, on organic compounds (BRUNNER and KRAEMER), 1884, A., 1315.
- Nitrohydrocarbons of the fatty series, tertiary (BEWAD), 1891, A., 653.
- Nitrohydrothiocinnamic acid (BONDZYNSKI), 1887, A., 1109.
- Nitrohydroxyanthraquinone ethylate (LIEBERMANN and HAGEN), 1883, A., 73.
- m*-*di*Nitrohydroxyazobenzene (KLINGER and PITSCHKE), 1886, A., 53.
- m*-Nitro-*p*-hydroxybenzaldehyde (SCHÜFF), 1892, A., 336.
- Nitro-*m*-hydroxybenzaldehydes, α -, β - and γ - (TIEMANN and LUDWIG), 1883, A., 189, 586.
- Nitrohydroxybenzaldehydes and their methyl derivatives (TIEMANN), 1889, A., 1168.
- 2-Nitro-*m*-hydroxybenzoic acid (THIEME), 1891, A., 917.
- Nitro-*m*- and -*p*-hydroxybenzoic acids (GRIESS), 1887, A., 485.
- Nitrohydroxybenzylphthalimidine (GABRIEL), 1885, A., 1230.
- di*Nitrohydroxydiphenylamine [m.p. 190°] (NIETZKI and SCHÜNDELEN), 1892, A., 310.
- di*Nitro-*o*-hydroxydiphenylamine (SCHÜPPF), 1889, A., 772.
- Nitrohydroxydiphenylbenzyl-maleide and -maleimidine (COEN), 1892, A., 485, 486.
- di*Nitrohydroxyethoxydiphenylamine (NIETZKI and KAUFMANN), 1892, A., 314.
- Nitro- ω -hydroxyethylpiperonylcarboxylic anhydride (PERKIN), 1890, T., 1027.
- Nitro-4'-hydroxy-2'-methylquinazoline (DEHOFF), 1890, A., 802; 1891, A., 84; (THIEME), 1891, A., 917.
- 1-Nitro-3-hydroxy-4-methylquinoline (NOLTING and TRAUTMANN), 1891, A., 326.
- 4-Nitro-1-hydroxy-2-methylquinoline (NOLTING and TRAUTMANN), 1891, A., 326; 1892, A., 727.
- Nitrohydroxymethylquinolines 2:1:4- and 3:4:1- (NOLTING and TRAUTMANN), 1892, A., 727, 728, 729.
- 3:2-Nitrohydroxy- α -naphthaquinone derivatives (KEHRMANN and WEICHARDT), 1889, A., 1197.
- Nitro-1-hydroxy- α -naphthoic acid (EKSTRAND), 1889, A., 153.
- Nitro- β -hydroxyphenylacrylic acids, *o*- and *p*- (LIPP), 1887, A., 142.
- Nitro- β -hydroxyphenylpropionic acid (*nitrophenyl- β -lactic acid*). See β -Hydroxyphenylpropionic acid.
- Nitro- β -hydroxyphenylpropionyl methyl ketone, *o*- and *p*- (V. BAEYER and DREWSSEN), 1883, A., 341; (V. BAEYER and BECKER), 1883, A., 1120.
- Nitrohydroxyphenylpyrotartaric acids, *m*- and *p*- (*nitrophenyltartaric acids*), and barium salts of (SALOMONSON), 1888, A., 480.
- di*Nitrohydroxyphthalic acid (BERNTHSEN and SEMPER), 1885, A., 548.
- 2-Nitro-4-hydroxyisopropylbenzoic acid (WIDMAN), 1886, A., 466.
- 3-Nitro-4-hydroxyisopropylbenzoic acid and its derivatives (WIDMAN), 1883, A., 330; 1884, A., 316.
- Nitrohydroxypropylphthalimide (NEUMANN), 1890, A., 890.
- Nitrohydroxyquinoline. See Hydroxyquinoline.
- Nitro-1-hydroxyquinolinecarboxylic acid (SCHMITT and ENGELMANN), 1888, A., 66.
- di*Nitrohydroxyquinone, preparation of (NIETZKI), 1884, A., 58.
- 5-Nitro-*o*-hydroxytoluic acid (HÖNIG), 1886, A., 242.
- tri*Nitrohydroxy-*m*-toluic acid (*nitrococcus acid*; *trinitroresotic acid*), synthesis of (V. KOSTANECKI and NIEMENTOWSKI), 1885, A., 531.
- p*-Nitrohydroxyvinylphenylpropionic acid (EINHORN and GEHRENDECK), 1889, A., 397.
- Nitro*di*imido-quinol and -resorcinol (NIETZKI and SCHMIDT), 1889, A., 963, 969.
- Nitroindazine (WITT, NOLTING and GRANDMOUGIN), 1891, A., 312.
- Nitroindoles, derivatives of (ZATTI), 1890, A., 897.
- Nitro-keto-compounds, formation of (ARMSTRONG and ROSSITER), 1891, P., 89.
- Nitro- α -keto- γ -methyl- β -ethyljuloline (KAYSER and REISSERT), 1892, A., 888.

- Nitroketones**, preparation of (LANGE and ZUFALL), 1892, A., 1459.
- ψ -**Nitroles**, conversion of ketoximes into (SCHOLL), 1885, A., 413.
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- o*-**Nitrofenomalachite-green** (*o*-nitro-tetramethylidiamidodiphenylmethane) (FISCHER and SCHMIDT), 1881, A., 1315.
- Nitrolimetin** (TILDEN), 1892, T., 350.
- Nitrolic acids** (JANOVSKY, 1885, A., 1131.
- Nitroltrimetaphosphoric acid** (MENTE), 1889, A., 211.
- o*-**Nitromalachite-green** (FISCHER and SCHMIDT), 1881, A., 1315.
- Nitromandelic acid**. See Mandelic acid.
- o*-**Nitroaconineacetic acid** (LIEBERMANN and KLEEMANN, 1887, A., 48.
- Nitromesitylacetic acid** and its salts (WISPEK), 1883, A., 1096.
- di*-**Nitromesitylacetic acid** (DITTRICH and MEYER), 1891, A., 1224.
- Nitromesitylene**, oxidation of (EMERSON, 1887, A., 132.
- di*-**Nitromesitylene methylnitramide** (KLOBBIE), 1888, A., 467.
- di*-**Nitromesitylgyoxylic acid** (DITTRICH and MEYER), 1891, A., 1224.
- Nitro-metals** (SABATIER and SENDERENS), 1892, A., 1390.
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- Nitromethane**. See Methane.
- Nitromethaneazobenzoic acid** (GRIESS), 1885, A., 788.
- Nitromethoxybenzaldehyde**. See Methoxybenzaldehyde.
- Nitro-*m*-methoxybenzoic acids**, *o*- and *m*- (RIEGER), 1889, A., 1169, 1170.
- 2-Nitro-6-methoxybenzonitrile** (LOBRY DE BRUYN), 1885, A., 637.
- Nitromethoxycinnamaldehyde** (V. MILLER and KINKELIN), 1889, A., 990.
- Nitromethoxycinnamic acid** *nitromethylcinnamic acid*. See Methoxycinnamic acid.
- m*-**Nitromethoxy- ψ -cumene** AUWERK, 1888, A., 114.
- 2-Nitro-5-methoxy- β -hydroxyphenylpropionamide** (EICHENGRUN and EINHORN), 1890, A., 1128.
- 2 Nitro-5-methoxy- β -hydroxyphenylpropionic acid** (EICHENGRUN and EINHORN), 1890, A., 1127; 1891, A., 1100.
- 2-Nitro-5-methoxyphenyl- β -bromopropionic acid** (EICHENGRUN and EINHORN), 1890, A., 1127.
- m*-**Nitro- p -methoxyphenyl- β -bromopropionic acid** (EINHORN and GRABFIELD), 1888, A., 475.
- m*-**Nitro- p -methoxyphenylethylene** (EINHORN and GRABFIELD), 1888, A., 477.
- 2-Nitro-3-methoxy-2'-phenylquinoline** and its derivatives (V. MILLER and KINKELIN), 1887, A., 978.
- m*-**Nitro- p -methylaceto- p -tolinide** (NIEMENTOWSKI), 1887, A., 937.
- p*-**Nitromethylamidoazobenzene**. See Benzeneazomethylaniline, nitro-.
- Nitromethylamidobenzoic acids** (THIEME), 1891, A., 916, 917.
- 5-Nitro-2-methylamidobenzomethylamide** (THIEME), 1891, A., 917.
- 2:4:6-*tri*-Nitromethylamidomethylnitramidobenzene** (VAN ROMBURGH), 1889, A., 1154.
- Nitromethylaniline**. See Methylaniline.
- tri*-**Nitromethyl-*o*-anisidine** (GRIMATX and LEFÈVRE), 1891, A., 1032.
- Nitro- β -methylanthraquinone** (ROEMER and LINK), 1888, A., 1138.
- Nitromethylisobenzaldoxime, *m*- and *p*-** (GOLDSCHMIDT), 1890, A., 1262; (GOLDSCHMIDT and KJELLIN), 1891, A., 1477.
- Nitromethylbenzamide** (VAN ROMBURGH), 1886, A., 546.
- Nitromethylcarbostyryl** (FEER and KOENIGS), 1885, A., 1235.
- Nitromethylcoumaraldehyde** (V. MILLER and KINKELIN), 1889, A., 990.
- Nitromethylcoumaric acid** (*nitromethoxycinnamic acid*). See Methylcoumaric acid.
- Nitromethylensphthalide** (ZINCKE and LATTEN), 1892, A., 1231.
- Nitro-*o*-methyl ethylbenzenes**, *mono*- and *di*- (CLAFS and PIESZCZEK), 1887, A., 240.
- m*-**Nitromethyl-formanilide** and *iso*-formanilide (COMSTOCK and WHEELER), 1892, A., 706.

- Nitromethylhydantoin** (FRANCHIMONT and KLOBBE), 1888, A., 1180; 1889, A., 1143.
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- di***Nitromethylhydro-*p*-coumaric acid** (STOEHR), 1884, A., 1350.
- di***Nitro-2'-methylindole** (ZATTI), 1890, A., 897.
- Nitro- α -methyl-naphthalene** (SCHERLER), 1892, A., 491.
- tri***Nitromethyl- α - and - β -naphthols** (STAEDEL), 1883, A., 863.
- Nitromethylpyrocatechol derivatives** (COTCIN), 1892, A., 1113.
- di***Nitromethylquinol** (WENDER), 1890, A., 752.
- Nitromethylquinoline.** See Methyl-quinoline.
- 4-Nitromethylquinolone** (DECKER), 1892, A., 880.
- di***Nitromethyl-*p*-toluidine** (NORTON and LIVERMORE), 1887, A., 1038.
- Nitro- β -methylumbelliferone** (V. PECHMANN and COHEN), 1884, A., 1332.
- Nitromethyluracil** (BEHREND), 1887, A., 919; (LEHMANN), 1890, A., 32.
- Nitromolybdic acid solution, concentrated, preparation of** (GUYARD), 1884, A., 635.
- Nitronaphthalene.** See Naphthalene.
- Nitronaphthalene-1:1'-dicarboxylic acid and anhydride** (QUINCKE), 1888, A., 814.
- Nitronaphthalene-2:2-disulphonic acid and its chloride** (ALLEN), 1883, A., 596.
- di***Nitronaphthalene-3:3-disulphonic chloride** (ALLEN), 1883, A., 596.
- 1:3'- α -Nitronaphthalenesulphonamide, action of hydriodic acid on** (EKBOM), 1891, A., 573.
- 1:4'-Nitronaphthalenesulphonamide, action of hydriodic acid on** (EKBOM), 1890, A., 994.
- Nitronaphthalenesulphonic acid.** See Naphthalenesulphonic acid.
- Nitro- α -naphthamide** (EKSTRAND), 1886, A., 948.
- Nitro- β -naphthaquinhydrone** (GROVES), 1884, T., 300.
- Nitro- β -naphthaquinol** (GROVES), 1884, T., 299; (ZAERTLING), 1890, A., 509.
- Nitronaphthaquinone.** See Naphthaquinone.
- Nitro- β -naphthaquinoneanilide** (BRAUNS), 1884, A., 1038; (KORN), 1884, A., 1186.
- Nitro- β -naphthaquinone-*o*- and -*p*-toluidides** (BRAUNS), 1884, A., 1038.
- Nitronaphthoic acid.** See Naphthoic acid.
- Nitronaphthol.** See Naphthol.
- Nitronaphtholactone** (EKSTRAND), 1889, A., 153.
- 4'-Nitro- α -naphthonitrile and nitro- β -naphthonitrile** (GRAEFF), 1884, A., 80.
- m*-**Nitro-*p*- α - and - β -naphthylamido-benzoic acids** (HEIDENBLEHEN), 1891, A., 307.
- Nitronaphthylamine.** See Naphthylamine.
- 4'-Nitro- α -naphthylamine-4-sulphonic acid** (NIEZKI and ZUBELEN), 1889, A., 514.
- α -Nitro- β -naphthyllic benzoate and acetate, reduction of** (BOTCHER), 1885, A., 659.
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- di***Nitronaphthyllic sulphide** (EKSTRAND), 1885, A., 171.
- Nitronates** (DIVER), 1883, T., 455, 466.
- Nitronitrosoanthrone** (PERKIN), 1891, T., 639.
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- Nitronitrosoazobenzene.** See Azobenzene.
- Nitronitrosobenzeneazo-.** See Benzeneazo-.
- p*-**Nitronitroso- β -benzylhydroxylamine** (BEHREND and KÖNIG), 1891, A., 1035.
- tetra***Nitronitrosobisazobenzene-*p*-chlorophenylhydrazine** (WILLGERODT), 1890, A., 1119; (WILLGERODT and BOHM), 1891, A., 907.
- o*-Nitro- ω -nitroso-*p*-diazotoluene chloride.** See Methyl-*o*-nitro-*p*-diazobenzene chloride, nitroso-.
- di-p*-**Nitrodinitrosoditoluene** (*bis-p-nitronitrosylbenzyl*) (BEHREND and KÖNIG), 1891, A., 1035.
- o*-Nitronitrosoethylaniline** (HEMPFEL), 1889, A., 600; 1890, A., 612.
- o*-Nitronitrosomethylaniline** (HEMPFEL), 1890, A., 612.
- Nitrodinitrosophenol** (WILLGERODT), 1891, A., 688; 1892, A., 594.
- Nitrodinitrosophenol-acenaphthene and -anthracene** (WILLGERODT), 1891, A., 689.
- 2:4-Nitronitrosoresorcinol** (DE LA HARPE and REVERDIN), 1888, A., 679; 1889, A., 41.
- Nitronitroso-*m*-xylenecarboxylic acid** (CLAUS), 1890, A., 980.

- Nitrononaphthene** (KONOWALOFF), 1892, A., 443.
- Nitro-octylbenzenes**, *o*-, *m*- and *p*- (AHRENS), 1887, A., 131.
- di*Nitro-octylbenzene** (AHRENS), 1887, A., 133.
- Nitro-opianic acid**, behaviour of, with phenylhydrazine (LIEBERMANN), 1886, A., 550.
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- Nitro-oreosolon** (JASSON), 1890, A., 1154.
- 1-Nitro-oxalo- β -naphthalide**, bis- (PERKIN), 1892, T., 466.
- m*-Nitro-oxalo- β -toluidide**, bis- (HINSBERG), 1883, A., 323.
- 5-Nitro-oxalo- α -toluidide**, bis- (PERKIN), 1892, T., 463.
- 3:5-*di*Nitro-oxalo- α - and - μ -toluidides**, bis- (MIXIER and KLEEBERG), 1889, A., 771; (PERKIN), 1892, T., 464, 465.
- tri*Nitro-oxanililide** (MIXIER and WALTHER), 1888, A., 142.
- Nitro-oxanilic acid**. See Oxanilic acid.
- Nitro-oxanilide**. See Oxanilide.
- Nitro-oxycamphor** (KACHLER and SPITZER), 1883, A., 215.
- 4-Nitro-2-oxy-3:1'-dimethylquinoline** (DEKER), 1892, A., 950.
- m*-Nitro-4'-oxy-2'-methylquinazoline** (DEHOFF), 1891, A., 54; (THIEME), 1891, A., 917.
- Nitro-oxyquinone carbonate** (LOWENBERG), 1886, A., 759.
- Nitroparaffins**, constitution of (KINGSLEY), 1885, A., 364.
- Nitropentane** (BEWAD), 1889, A., 1127.
- Nitroperselitol** (MUNTZ and MARANO), 1884, A., 1285.
- di*Nitro-*p*-phenacetide** (WENDER), 1890, A., 751.
- o*-Nitrophenacetin** (AUTENRIETH and HINSBERG), 1892, A., 160.
- Nitrophenacetic acid** (HOTTER), 1888, A., 1299.
- m*-Nitrophenacylphthalimide** (SCHMIDT), 1890, A., 372.
- m*-Nitrophenacyl-*p*-toluidine** (LELLMANN and DONNER), 1890, A., 525.
- Nitrophenanthraquinone** (LACHOWICZ), 1884, A., 82.
- 2:4-*di*Nitrophenazoxine** (TILPIN), 1891, T., 724.
- o*-Nitro-*p*-phenetidine** (AUTENRIETH and HINSBERG), 1892, A., 160.
- 2:6-*di*Nitro-*p*-phenetidine** (WENDER), 1890, A., 751.
- Nitrophenetol**. See Phenetol.
- Nitrophenol**. See Phenol.
- 2:4:6-*tri*Nitrophenol**. See Picric acid.
- di*Nitrophenolsulphonic acid**, preparation of (DEYER and KEGLI), 1885, A., 269.
- Nitrophenophenanthrazine** (HEIM), 1885, A., 1097.
- p*-Nitrophenoxyacetophenone** (MOHLAU), 1883, A., 332.
- p*-Nitrophenyl mercaptan** (WILLGERODT), 1885, A., 519; (LEUCKART), 1890, A., 604.
- di*Nitrophenyl mercaptan** (AUTENRIETH and SMITH), 1886, A., 693.
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- m*-Nitrophenyl methyl ketoxime** (GABRIEL), 1883, A., 582.
- Nitrophenylacetamide**, *m*- and *p*- (PERKIN), 1891, A., 562.
- m*-Nitrophenylacetic acid** (GABRIEL and BOLGMANN), 1883, A., 1121.
- o*-*p*-*di*Nitrophenylacetic acid** (HECKMANN), 1884, A., 173.
- Nitrophenylacetoneitrile**. See Phenylacetoneitrile.
- Nitrophenyl- β -alanine**. See Nitr- β -amidopropionic acid.
- Nitrophenylamido-**. See also Nitr-*amido-*.
- Nitrophenyl-*li*-*p*-amidophenylisobutylmethanes**, *m*- and *p*- (BISCHLER), 1889, A., 133.
- Nitrophenyl- β -amidopropionic acid**. See Nitr- β -amidopropionic acid.
- m*-Nitrophenyl-*li*-*p*-amidotolylmethanes**, α - and β - (BISCHLER), 1889, A., 133.
- p*-Nitrophenyl-*li*-*p*-amidotolylmethanes**, α - and β - (BISCHLER), 1888, A., 287.
- Nitrophenyl-*di*-*m*-xylylmethanes**, *m*- and *p*- (BISCHLER), 1889, A., 134.
- tetra*Nitrophenylazimidobenzene** (WILLGERODT), 1892, A., 1454.
- di*Nitrophenylazimidotolylamine** (ERNST), 1891, A., 300.
- o*-Nitrophenylazacetacetic acid**, and its derivatives (BAMBERGER), 1885, A., 157.
- o*-Nitrophenylazacetophenone** (BAMBERGER and CALMAN), 1886, A., 62.
- di*-*o*-Nitrophenylbenzidine** (SCHOPFF), 1889, A., 773.
- Nitrophenylbenzyl oxides**, *o*- and *p*- (KUMPF), 1884, A., 1005.
- m*-Nitrophenylbenzylcarbamide** (KUNN and RIESENFELD), 1892, A., 312.
- o*-Nitrophenylbenzylhydrazine** PAAL and BODEWIG, 1892, A., 1455.
- o*-Nitrophenylbenzylidenehydrazine** (BISCHLER), 1890, A., 148.

- m*-Nitrophenylbenzylidenhydrazine (BISCHLER and BRODSKY), 1890, A., 150.
- p*-Nitrophenyl- γ -*d*-bromomethyl- β -bromacrylic acid (EINHORN and GEHRENBECK), 1889, A., 396; 1890, A., 162.
- p*-Nitrophenylbromomethylactic acid, lactone of (EINHORN and GEHRENBECK), 1889, A., 397.
- p*-Nitrophenyldibromobutinenecarboxylic acid (EINHORN and GEHRENBECK), 1889, A., 396.
- o*-*p*-*d*-Nitrophenyl-*p*-bromophenylhydrazine (WILLGERODT and ELLON), 1891, A., 1362.
- o*-Nitrophenyl- β -bromopropionic acid and its derivatives (EINHORN), 1884, A., 65.
- m*-Nitrophenyl- β -bromopropionic acid (PRAUSNITZ), 1884, A., 1175.
- Nitrophenyl- β -bromoisosuccinic acids, *o*- and *p*- (STUART), 1886, T., 363, 362.
- Nitrophenyldibromoisosuccinic acids, *m*- and *p*- (STUART), 1886, T., 361.
- Nitrophenylbutinene- ω -carboxylic acids (EINHORN and GEHRENBECK), 1889, A., 271, 396; 1890, A., 162.
- p*-Nitrophenylisobutyric acid (EDELEANU), 1888, T., 558.
- o*-*p*-*d*-Nitrophenyl-*m*-chlorophenylhydrazine (WILLGERODT and MUHE), 1892, A., 454.
- o*-*p*-*d*-Nitrophenyl-*p*-chlorophenylhydrazine (WILLGERODT), 1890, A., 1119; (WILLGERODT and BOHM), 1891, A., 906.
- o*-Nitrophenylcinnamic acid (OGGIALORO-TODARO and ROSINI), 1891, A., 214.
- Nitrophenyleitraconazide (MICHAEL), 1886, A., 699.
- o*-*p*-*d*-Nitrophenyleonine (LELLMANN and JUST), 1891, A., 1245.
- m*-Nitrophenylcrotonaldehyde (v. MILLER and KINKELIN), 1886, A., 560. base from (v. MILLER and KINKELIN), 1886, A., 701. product of the reduction of (v. MILLER and KINKELIN), 1886, A., 799.
- m*-Nitrophenylcrotonic acid (v. MILLER and ROHDE), 1890, A., 1140.
- p*-Nitrophenyldehydrohexonecarboxylic acid (PERKIN), 1887, T., 736.
- β -*p*-Nitrophenyldi-*p*-acetamidoditolylmethane (BISCHLER), 1889, A., 132.
- m*-Nitrophenyldianethoilmethane (DE VARDA), 1891, A., 1347.
- m*-Nitrophenyldi-*o*-cresolmethane (SIBONI), 1892, A., 621.
- Nitrophenyldihydroxyphenylmethanedicarboxylic acids, *o*-, *m*- and *p*- (DE VARDA), 1892, A., 621.
- m*-Nitrophenyl-dioreinolmethane and -diphloroglucinolmethane (BERTONI), 1891, A., 1378.
- Nitrophenyldipiperidyls, *p*-mono- and *o*-*p*-di- (LELLMANN and JUST), 1891, A., 1245.
- p*-Nitrophenyldiquinolylmethane (EINHORN), 1886, A., 720.
- m*-Nitrophenyldiresorcinylmethane (DE VARDA and ZENONI), 1891, A., 1346.
- d*-Nitrophenyldithienyl (RENARD), 1890, A., 1421.
- m*-Nitrophenylditolylmethane (TSCHACHER), 1887, A., 44; 1888, A., 373.
- di*Nitro-*m*-phenylenediamine [m. p. 250°] (BARR), 1888, A., 823.
- di*Nitro-*m*-phenylenediamine [m. p. 300°] (NIEZKI and HAGENBACH), 1887, A., 477.
- tri*Nitro-*m*-phenylenediamine (NOLTING and COLLIN), 1884, A., 1004; (BARR), 1888, A., 823.
- tri*Nitro-*m*-phenylenedimethyldinitramine (VAN ROMBURGH), 1888, A., 1079, 1185.
- Nitrophenylene-ethenylamidine (HEIM), 1888, A., 1097.
- d*-Nitrophenylenehydroxylamine (WILLGERODT), 1892, A., 594.
- Nitrophenylene- β -naphthylethyldiamine (HEIM), 1888, A., 488.
- o*-Nitrophenylethyl salicylate (*salicyl-ethylen: nitrophenol ether*) (WAGNER), 1884, A., 436.
- Nitrophenylethyl nitrosamine (MELDOLA and STREATFIELD), 1886, T., 631.
- Nitrophenylethylurethane (STEUDEMANN), 1883, A., 802.
- o*-*p*-Nitrophenylfurfuracrylonitrile (FREUND and IMMERWAHR), 1890, A., 1408.
- Nitrophenylglycidic acid, *o*- and *p*- (LIPP), 1887, A., 142.
- Nitrophenylglycollic acid. See Mandelic acid, nitro-.
- Nitrophenylglyoxylic hydrazones, *o*- and *m*- (FEHLIN), 1890, A., 1117.
- Nitrophenylhydrazine. See Phenylhydrazine.
- 5-Nitrophenylhydrazine-*o*-sulphonic acid (LIMPRICHT), 1885, A., 1216.
- o*-Nitrophenylhydrazine-*p*-sulphonic acid (NIEZKI and LERCH), 1889, A., 144; (LERCH), 1889, A., 881.
- 4:6-*di*-Nitrophenyl-1:2-hydroxylamine (WILLGERODT), 1891, A., 688; 1892, A., 594.

- o*-Nitrophenylic benzoate, reduction of (BOTCHER), 1887, A., 658.
- Nitrophenylic benzoates (NEWMANN, 1886, A., 350, 939; 1887, A., 254).
- di*Nitrophenylic carbonate (LOWENBERG), 1886, A., 789.
- tri-p*-Nitrophenylic cyanurate (OTTO), 1887, A., 1033.
- o*-Nitrophenylic diphenylcarbamate (LELLMANN and BONHOFFEL), 1887, A., 936.
- Nitrophenylic diphenylcarbamates (LELLMANN and BENZ), 1891, A., 1215.
- o*-Nitrophenylic ethylic carbonate (BENDER), 1887, A., 37.
- Nitrophenylic orthoformate, tribasic (WENDIGE), 1883, A., 340.
- Nitrophenylic nitrobenzoates (NEUMANN), 1886, A., 350, 939; 1887, A., 254.
- Nitrophenylic oxides, *o*- and *p*-, of dinitrophenol and of picric acid (WILLGERODT and HUETLIN), 1884, A., 1323.
- Nitrophenylic phenylcarbamate (GUMPERT), 1886, A., 342.
- Nitrophenylic phenylmethylecarbamates (LELLMANN and BENZ), 1891, A., 1214.
- p*-Nitrophenylic phosphate (RAPF), 1884, A., 1337.
- di*Nitrophenylic sulphide (*tetranitro-diphenylic sulphide*) (ATSTEN and SMITH), 1886, A., 693.
- m*-Nitrophenylic *d*-sulphide (LEUCKART), 1890, A., 604.
- p*-Nitrophenylic *d*-sulphide (WILLGERODT), 1885, A., 519.
- o*-*di*Nitrophenylic thiobenzoate (WILLGERODT), 1885, A., 519.
- di*Nitrophenylic thiocyanate (ATSTEN and SMITH), 1886, A., 693.
- Nitro-1'-phenylindazine-3'-carboxylic acid, action of stannous chloride on (SCHULHÖFER), 1891, A., 1231.
- Nitro-1'-phenyl-*h*-indazine-3'-carboxylic acid (MEYER), 1889, A., 517.
- m*-Nitrophenylisindihydroxytartaric acid (BISCHLER and BRODSKY), 1890, A., 151.
- Nitrophenyl- α -lactic acid, nitrate of (ERLENMEYER and LIPP), 1883, A., 993.
- Nitrophenyl- β -lactic acid. See β -Hydroxyphenylpropionic acid.
- Nitro- β -phenyllactic methyl ketones. See Nitro- β -hydroxypropionyl methyl ketone.
- o*-Nitrophenylmethaneazobenzene (PAAL and BODEWIG), 1892, A., 1456.
- az-p*-Nitrophenyl-*ald*-methyl-naphthatriazine (MELDOLA and FORSTER), 1891, T., 697, 712.
- 2:3:4-6-*tri-p*-Nitrophenylmethylnitramine, and its conversion into *m*-phenylenediamine derivatives (VAN ROOIJCKHOF), 1884, A., 1154.
- p*-Nitrophenylmethylnitrosamine FISCHER and HEPP, 1887, A., 244; (MELDOLA and SALMON, 1888, T., 775).
- μ -*m*-Nitrophenyl- β -methyloxazoline (ELFELDT), 1892, A., 214.
- o*:*p*-*di*Nitrophenyl- α -methylpiperidine (LELLMANN and JEFF), 1891, A., 1245.
- Nitrophenyl- β -methylpiperidine, *p*-*monos* and *o*:*p*-*di*-LELLMANN and BUTNER, 1890, A., 1003.
- 4-Nitro-1-phenyl-3-methylpyrazolone (KNORR), 1884, A., 302, 1153, 1378; 1887, A., 602; (KNORR and DUDEN), 1892, A., 731.
- m*-Nitro-2'-phenyl 2'-methylquinoline (V. MILIER and KINKELIN), 1886, A., 561.
- 2:4-*d*-Nitrophenyl- β -naphthol (ERNST), 1891, A., 300.
- 2-4-*d*-Nitrophenyl- α -naphthylamine (HEIM), 1888, A., 488, 1096.
- 2:4-*d*-Nitrophenyl- β -naphthylamine (HEIM), 1888, A., 488; (ERNST), 1891, A., 300.
- o*:*p*-*di*Nitrophenyl- α - and - β -naphthylhydrazines (WILLGERODT and SCHULZ), 1891, A., 572.
- Nitrophenylnitrobenzenesulphazides, *m*- and *p*- (LIMPRICHT), 1887, A., 723.
- p*-Nitrophenyl-*o*:*p*-*di*nitrophenylcarbonyl cyanide (V. RICHTER), 1888, A., 1186.
- Nitrophenyl-*o*- and -*p*-nitrophenyl oxides, *di*- and *tri*- (WILLGERODT and HUETLIN), 1884, A., 1323.
- Nitrophenyl-*ald-m*- and -*p*-nitrophenyl-naphthatriazines, *at-p*- and *m*- (MELDOLA and FORSTER), 1891, T., 693, 694.
- p*-Nitrophenylnitropropionic acid, derivatives of (FRIEDLANDER and MAHL), 1885, A., 1187.
- m*-Nitrophenyl-*o*-nitro-*p*-tolylthiocarbamide (STEUDEMANN), 1884, A., 307.
- Nitro-*n*-phenylosotriazolecarboxylic acid (BALTZER and V. PECHMANN), 1891, A., 1116.
- μ -*m*-Nitrophenyloxazoline (ELFELDT), 1892, A., 213.
- Nitro- β -phenyloxycrylic acids. See Nitrophenylglycidic acids.
- Nitrophenylparaosonic acids (SALOMONSON), 1885, A., 1221; 1888, A., 480.
- μ -*m*-Nitrophenylpentoxazoline (ELFELDT), 1892, A., 214.
- m*-Nitrophenylphenacyl oxide (LELLMANN and DONNER), 1890, A., 523.

- Nitrophenyl-*ul*phenylnaphthatriazines.** See Nitrodiphenylnaphthatriazine.
- p*-Nitrophenylpiperazine (SCHMIDT and WICHMANN), 1892, A., 210.
- Nitrophenylpropylamines, *di*- and *tri*-** (VAN ROMBURGH), 1886, A., 455.
- di*Nitrophenylpropylene. See *di*Nitrallylbenzene.
- tri*Nitrophenylpropylnitramine (VAN ROMBURGH), 1886, A., 455.
- m*-Nitro-2'-phenylquinoline (v. MILLER and KINKELIN), 1885, A., 1144.
- di*Nitrophenylosaniline (NÖLTING), 1883, A., 54.
- di*Nitrophenylsaliicylic acid (ARBENZ), 1890, A., 893.
- m*-Nitrophenylsantoninmethane (BERTONI), 1892, A., 622.
- m*-Nitro-2'-phenyltetrahydroquinoline (v. MILLER and KINKELIN), 1885, A., 1145.
- o*-Nitrophenyltetra-*p*-hydroxydiphenylmethane (SIBONI), 1892, A., 621.
- p*-Nitrophenyltetra-*m*-hydroxydiphenylmethane (SIBONI), 1892, A., 621.
- Nitrophenyltetra-*p*-hydroxydiphenylmethanes, *m*- and *p*-** (BERTONI and ZENONI), 1892, A., 620.
- Nitrophenyltetrazolecarboxylic acid** (BLADIN), 1892, A., 1009.
- m*-Nitrophenylthiocarbimide and its derivatives (STEUDEMANN), 1882, A., 801; 1884, A., 306.
- Nitrophenylthiourethane** (LOSANTSCH), 1893, A., 582.
- o*-Nitrophenyl-*p*-toluidine (SCHÖPF), 1890, A., 1113.
- tri*Nitrophenyltoluidine. See *tri*Nitranilidotoluene.
- Nitrophenyl-*p*-tolylthiocarbamides, *o*- and *m*-** (STEUDEMANN), 1884, A., 307.
- Nitrophenyltriazolecarboxylic acid** (BLADIN), 1892, A., 735.
- m*-Nitrophenyltrimethylammonium hydroxide, bromide and *m*-nitrophenoxide (STAEDEL and BAUER), 1886, A., 941.
- p*-Nitrophenylurethane and its derivatives (HAGER), 1885, A., 149.
- o*:*p*-*di*Nitrophenylurethane (HAGER), 1885, A., 150; (VAN ROMBURGH), 1892, A., 712.
- p*-Nitrophenylvaleric acid (LELMANN and SCHLEICH), 1887, A., 490.
- tri*Nitrophenylorogluinol (BENEDIKT and HAZURA), 1885, A., 554.
- di*Nitrophthalic acids, 5:3- and 6:3- (MEZ and WHITE), 1883, A., 344.
- 4-Nitroisophthalic acid** (CLATS and WYNDHAM), 1889, A., 142; (NOYES), 1889, A., 395.
- di*Nitroisophthalic acid (CLATS and WYNDHAM), 1889, A., 142.
- Nitrophthalo-*m*-isocymide** (KELBE and WARTH), 1884, A., 47.
- Nitropiperidine** (FRANCHIMONT and KLOBBIE), 1889, A., 1145.
- o*-Nitropiperonalphenylhydrazone (HADER), 1891, A., 706.
- 6-Nitropiperonylacrylic acid and its salts** (PERKIN), 1891, T., 153.
- 2-Nitropiperonylnitrile** (HABER), 1891, A., 706.
- o*-Nitropiperonylvinyl methyl ketone (HABER), 1891, A., 705.
- Nitropropanes.** See Propane.
- di*Nitropropane-*p*-bisazoanisole (KESSLER and MEYER), 1892, A., 1062.
- di*Nitropropanebisazo-benzene and -toluene (KESSLER and MEYER), 1892, A., 1062.
- Nitropropenylbenzoic acid, salts of** (WIDMAN), 1881, A., 317.
- o*-Nitropropionanilide (SMITH), 1885, A., 524.
- m*-Nitropropylbenzoic acid. See *n*-Cumic acid, nitro-.
- Nitroisopropylcinnamic acid.** See Cumylacrylic acid, nitro-.
- Nitropropylene** (MEYER), 1892, A., 575; (ASKENASY and MEYER), 1892, A., 1062.
- Nitropropylene-*p*-azoanisole, nitropropyleneazobenzene, nitropropylene-*m*-azobenzoic acid, nitropropylene-azo-*m*-bromobenzene, nitropropyleneazo-*ψ*-cumene, nitropropylene-*p*-azophenetole, and nitropropylene-*o*- and -*p*-azotoluenes** (ASKENASY and MEYER), 1892, A., 1063, 1064.
- Nitropropyleneazobenzene** (MEYER), 1892, A., 575.
- di*Nitropropylthiophen (RUFF), 1887, A., 804.
- Nitroprussides** (NORTON), 1888, A., 932; (PRUD'HOMME), 1890, A., 1387.
- formation of, without the use of nitric acid (JENSEN), 1885, A., 739.
- preparation of (PRUD'HOMME), 1891, A., 410.
- action of heat on (ETARD and BÉMONT), 1885, A., 234.
- Nitropurpurin and *ψ*-nitropurpurin** (BRASCH), 1891, A., 1078.
- 3-Nitropyrrocatechol, behaviour of, with mordants** (v. KOSTANECKI), 1889, A., 868.
- Nitropyromecazone** (OST), 1883, A., 791.

- 2:5-*d*-Nitropyromellitic acid, and its ethylic salt (NEF), 1886, A., 64; 1888, T., 439.
- Nitropyromelic acid (PRIEDR.), 1885, A., 971.
- di*Nitropyrroline (CIAMICIAN and SILBER), 1885, A., 993; 1886, A., 718.
- Nitropyrroline- α -carboxylic acids, α - and β - (ANDERLINI), 1890, A., 66.
- Nitropyrrolinephthalide (ANDERLINI), 1889, A., 58.
- Nitropyrrolylene dimethyl ketone (CIAMICIAN and SILBER), 1886, A., 718.
- o*-Nitropyrvaldehydophenylhydrazones (BAMBERGER), 1885, A., 157.
- p*-Nitropyrvic acid phenylhydrazones (FISCHER and ACH), 1890, A., 11.
- 2:5-*d*-Nitroquinol (NIEZKI), 1883, A., 465.
constitution of (NIEZKI and PLETCHER), 1887, A., 574.
- tr*-Nitroquinol, derivative of (NIEZKI and KAUFMANN), 1892, A., 314.
- Nitroquinols, diethyl derivatives of (NIEZKI), 1883, A., 466; (NIEZKI and KAUFMANN), 1892, A., 314.
- Nitroquinoline. See Quinoline.
- Nitroquinoline-2'-carboxylic acid (DOEBNER and V. MILLER), 1883, A., 602.
- Nitroquinone, Etard's. probable non-existence of (HENDERSON and CAMPBELL), 1890, T., 255.
- Nitroresorcinol. See Resorcinol.
- Nitroresorcinoldisulphonic acid (ULZER), 1889, A., 510.
- Nitroresorcinolsulphonic acid and its derivatives (HAZURA), 1883, A., 1114.
- tetra*Nitrosolic acid (ACKERMANN), 1884, A., 1339.
- Nitrosalicylaldehydes (V. MILLER), 1887, A., 938; (TAEGER), 1887, A., 939; (BRADLEY and DAINES), 1892, A., 1458.
- 3- and 5-Nitrosalicylic acids (SMITH and KNEHR), 1886, A., 704.
- Nitrosamines (FISCHER and HEPP), 1887, A., 729, 1114.
constitution of (EULENMEYER), 1883, A., 1103.
action of hydrogen chloride on (FISCHER and HEPP), 1887, A., 244.
- Nitrosates and their derivatives (WALLACH), 1888, A., 37.
- Nitrosilicic acid, existence of (BOUSSÉAC and TITE), 1892, A., 651.
- Nitrosites and their derivatives (WALLACH), 1888, A., 37.
- iso*Nitroso-. See parent substance, oxime of.
- Nitrosoacetone (V. PETERMANN), 1887, A., 1104.
sodium salt of, action of benzylic chloride on MEYER and CERESOLE, 1883, A., 572.
- di*Nitrosoacetone (V. PETERMANN and WEHRSARG), 1889, A., 34.
- Nitrosoacetonephenylhydrazones, *mono*- and *di*- (V. PETERMANN and WEHRSARG), 1889, A., 47, 54.
- di*Nitrosoacetonephenylmethylhydrazones (V. PETERMANN and WEHRSARG), 1889, A., 48.
- Nitrosoallylacetone (OTTE and V. PETERMANN), 1889, A., 1139.
- Nitrosoamidoethylpiperonylic anhydride (PERKIN), 1890, T., 1918.
- Nitroso- α -anilidopropionic acid (REISELT), 1892, A., 1456.
- p*-Nitrosoaniline (FISCHER and HEPP), 1887, A., 1114; 1888, A., 400.
action of phenylhydrazine on (FISCHER and WACKER), 1888, A., 1286.
phenylmethylhydrazones of (FISCHER and WACKER), 1889, A., 702.
- p*-Nitrosoanisidine BENZ., 1890, A., 608.
- Nitrosoanthrone (GIMBLE), 1887, A., 675.
action of nitric acid on (PERKIN), 1891, T., 641.
- ψ -Nitrosoanthrone (PERKIN), 1891, T., 645.
- Nitrosoazo-compounds, constitution of (WILLERDORF), 1892, A., 1321, 1453.
- Nitrosoazobenzene. See Azobenzene.
- Nitrosobarbituric acid (CERESOLE), 1883, A., 913.
- p*-*di*Nitrosobenzene (NIEZKI and KEHRMANN), 1887, A., 575.
- Nitrosobenzeneazo-. See Benzeneazo-.
- Nitrosobenzenesulphonic acid, preparation and salts of (LIMPRICHT), 1892, A., 475.
- di*Nitrosobenzenylamidine (LOSSEN and MIERAU), 1883, A., 634.
- di*Nitrosobenzenylamidinebenzenylamidine (LOSSEN and MIERAU), 1888, A., 684.
- Nitrosobenzylacetone (CERESOLE), 1883, A., 41.
- Nitroso-*o*-benzylamidoacetophenone (V. BAeyer), 1884, A., 1021.
- p*-Nitrosobenzylaniline (FISCHER and HEPP), 1890, A., 614; (BOEDINGHART), 1891, A., 1205.
- Nitroso- β -benzylhydroxylamine (BEHREND and KONIG), 1891, A., 1034.
- p*-Nitrosobenzylmethylaniline (BOEDINGHART), 1891, A., 1206.

- Nitroso-*β*-benzylpiperidone (ASCHAN), 1891, A., 467.
- p*-Nitrosobenzyl-*o*- and -*m*-toluidines BOE DINGHARTS, 1891, A., 1203.
- p*-Nitrosoisobutylaniline (WAKEL), 1888, A., 465.
- Nitrosocamphor (CLAIEN and MANASSE), 1889, A., 619.
- oxidation by, in presence of light (CAZENOVE), 1889, A., 1203.
- Nitroso-compounds, preparation of (WILLGERODT), 1891, A., 638.
- true, question of the existence of (MEYER), 1888, A., 702.
- constitution of (MEYER and CERESOLE), 1883, A., 572.
- action of sulphurous anhydride on (SCHMIDT), 1890, A., 1305; 1892, A., 475.
- aromatic (GABRIEL), 1883, A., 919.
- cyanhydrides of (LIPPMANN and FLEISSNER), 1885, A., 1212.
- Nitroso-*o*-cresol (NOLTING and KOHN), 1884, A., 1003; (GOLDSCHMIDT and SCHMID), 1884, A., 1327.
- Nitrosoresorcinol. See Nitroso-2:4-dihydroxytoluene.
- di*Nitroso-*n*-cumene (KFRMANN and MESSINGER), 1891, A., 298.
- Nitroso- ψ -cumylazoresorcinol (v. KOSTANECKI), 1889, A., 137.
- Nitrosoacetic acid (WOLFF and GAN), 1891, A., 897.
- Nitrosocyanides (PAVELL), 1883, A., 297.
- Nitrosocyanobutyric acid (WOLFF), 1891, A., 418.
- Nitrosodialkylanilines, periodides of (DAFERT), 1883, A., 979.
- Nitrosodibenzoylmethane (v. PECHMANN), 1888, A., 712; (DE NEUFVILLE and v. PECHMANN), 1891, A., 318.
- Nitrosodibenzylamine (WALDER), 1887, A., 247.
- Nitrosodibenzylhydroxylamine (WALDER), 1887, A., 246.
- Nitroso-1:3-diethoxybenzene (KRAUS), 1892, A., 44.
- Nitroso-*p*-diethoxydiphenylpiperazine (BISCHOFF and TRAPESONZJANZ), 1890, A., 1332.
- Nitrosodiethyl ketone (CLAIEN and MANASSE), 1889, A., 585.
- Nitrosodiethylaniline cyanhydrin (LIPPMANN and FLEISSNER), 1885, A., 1213.
- Nitrosodiethylene (GIBBS and REICHERT), 1891, A., 1393.
- 1:3-*di*Nitroso-2:4-dihydroxytoluene (v. KOSTANECKI), 1888, A., 263.
- Nitroso-*p*-dimethylamidobenzoic acid and its derivatives (BISCHOFF), 1889, A., 511.
- Nitrosodimethylamidobenzophenone (BISCHOFF), 1889, A., 511.
- Nitrosodimethyl-*m*-amidophenol (MORLAU), 1892, A., 887.
- Nitrosodimethylaniline. See Dimethylaniline.
- Nitroso-2:5-dimethylpyrrolidine (TAFEL and NEUGEBAUER), 1890, A., 1001.
- Nitrosodi- β -naphthylamine (RIS), 1888, A., 55.
- Nitroso- α -dipentenitrolaniline (WALLACH), 1892, A., 1348.
- p*-Nitrosodiphenylamine (FISCHER and HEPP), 1887, A., 244; (KUTTA), 1888, A., 467.
- p*-Nitrosodiphenylmethylaniline (FISCHER and HEPP), 1890, A., 614.
- p*-Nitrosodiphenyl-*m*-phenylenediamine (FISCHER and HEPP), 1890, A., 613.
- Nitrosodipropylamine (*di*propylnitrosamine) (VINCENT), 1886, A., 1005.
- Nitrosodipropylaniline cyanhydrin (MANDL), 1886, A., 793.
- Nitrosodipyromeconic acid (OST), 1883, A., 793.
- di*Nitrosoditoluene (BEHREND and KUNIG), 1890, A., 1122.
- Nitrosodi-*p*-tolyl-*d*-amido-*o*-diazothiole (HECTOR), 1890, A., 527.
- Nitrosoethoxyethylphenol (KRAUS), 1892, A., 45.
- α -Nitroso- β -ethoxyxynaphthalene (v. HINSKI), 1886, A., 474.
- Nitrosoethyl-*o*-amidocinnamic acid (FISCHER and KUZEL), 1884, A., 440.
- Nitrosoethylamido- β -phenylpropionic acid (FISCHER and KUZEL), 1884, A., 1132.
- 1:1-Nitrosoethylaniline (FISCHER and HEPP), 1887, A., 244.
- Nitrosoethylic alcohol, oxime of (ALEXIEFF), 1886, A., 999.
- p*-Nitrosoethyl-*o*-toluidine (FISCHER and HEPP), 1887, A., 244.
- α -Nitrosoglutaric acid (WOLFF), 1891, A., 419.
- p*-Nitrosoguaiacol (BEST), 1890, A., 608.
- Nitrosoguvasine (JAHNS), 1892, A., 740.
- iso*Nitrosohesperidene. See Carvoxime.
- Nitrosohippurylhydrazine (CURTIUS), 1891, A., 57.
- Nitrosohydrazonhippuric acid (CURTIUS), 1891, A., 57.

- 8'-Nitroso-4'-hydroxycarbostryl (v. BAYER and HOMOLKA), 1884, A., 78, 1029.
- p*-Nitroso-*m*-hydroxydiphenylamine (KÖHLER), 1888, A., 587.
- β -Nitroso- γ -hydroxy- α -ketoluloline (KAYSER and REISSERT), 1892, A., 884.
- Nitroso-4-hydroxy-3-methylquinoline (NULTING and TRAUTMANN), 1891, A., 326.
- Nitroso-2'-hydroxy-4'-methyltetrahydroquinoline (FISCHER and WITTMACK), 1884, A., 1052.
- Nitroso-*m*-hydroxy-*p*-tolylamine (HATSCHEK and ZLGA), 1886, A., 455.
- o*-Nitroso-3-hydroxyquinoline (MATHEUS), 1888, A., 965.
- μ -Nitrosoimidothiazoline (NAF), 1891, A., 1515.
- Nitrosindole (ZATTI and FERRARINI), 1890, A., 1293.
molecular weight of (ZATTI and FERRARINI), 1892, A., 67.
- Nitrosoindoxyl (v. BAYER), 1883, A., 1131.
- Nitrosoketones (TREADWELL and WESTENBERGER), 1883, A., 572; (CLAISEN), 1887, A., 463; (CLAISEN and MANASSE), 1887, A., 944.
decomposition of (v. PECHMANN), 1888, A., 248.
- iso*Nitrosoketones. See Ketoximes.
- iso*Nitrosolimonene. See Carboxime.
- Nitrosolimononenitrolaniline (WALLACH), 1892, A., 1848.
- Nitrosomalonic acid, constitution of (MEYER and MÜLLER), 1883, A., 790.
- Nitrosomethyl isobutenyl ketone (CLAISEN and MANASSE), 1889, A., 585.
- Nitrosomethyl ethyl ketone (CERESOLE), 1883, A., 41.
- Nitrosomethyl propyl ketone (CLAISEN and MANASSE), 1889, A., 585.
- o*-Nitrosomethylamidobenzamide (FISCHER), 1888, A., 948.
- Nitroso-*o*-methylamidobenzene (MEYER), 1886, A., 63.
- Nitrosomethylamidophenylethane (HEUMANN and WILERNIK), 1887, A., 1039.
- 1:1-Nitrosomethylaniline (FISCHER and HEPP), 1887, A., 244.
See also Phenylmethylnitrosamine.
- μ -Nitrosomethyl-*o*-anisidine (BEST), 1890, A., 607.
- Nitrosomethylcarbamide (v. BRUNING), 1888, A., 936.
- n*-Nitroso-*n*-methylimidothiazoline (NAF), 1891, A., 1516.
- μ -Nitroso-*n*-methylimidothiazoline (NAF), 1891, A., 1516.
- Nitrosomethyl-*o*-nitro-*p*-diazobenzene chloride *o-n tro-o-nitro-o-p-diazo-toluene chloride* (MEYER), 1886, A., 63.
- Nitroso-*p*-methyloxindole (MEYER), 1884, A., 48.
- 5-Nitrosomethyl-*o*-toluidine (KOCK), 1888, A., 469.
- 6-Nitrosomethyl-*o*-xyldine (FISCHER and HEPP), 1890, A., 913; (MENTON), 1891, A., 1204.
- μ -Nitrosomethyl-*p*-xyldine (PITLIG), 1890, A., 607.
- 1:2-*d*-Nitrosonaphthalene (v. ILINSKI), 1886, A., 472.
- 1:4-*d*-Nitrosonaphthalene NIETZKI and GUTERMANN, 1888, A., 471.
- Nitrosonaphtharesorcinols, *mono*- and *di*- (v. KOSTANECKI), 1889, A., 887.
- Nitrosonaphthol. See Naphthaquinone-oxime.
- 2-Nitroso- α -naphthol-4-sulphonic acid (WITT and KAUFMANN), 1892, A., 195.
- Nitroso- β -naphthol-3'- and -4-sulphonic acids, 1- and 2-, metallic salts of (HOFFMANN), 1892, A., 346.
- 2-Nitroso- α -naphthylamine (HARDEN), 1890, A., 630.
- 1-Nitroso- β -naphthylamine (v. ILINSKI), 1884, A., 1035; (HARDEN), 1890, A., 630.
- α -Nitroso- β -naphthylethylamine (FISCHER and HEPP), 1887, A., 1114; 1888, A., 461.
- β -Nitroso- α -naphthylethylamine (HARDEN), 1890, A., 631.
- p*-Nitroso- α -naphthylethylamine (KOCK), 1886, A., 469.
- Nitroso-*o*-rcinol (KRAEMER), 1884, A., 1341.
- d*-Nitroso-*o*-rcinol (GOLD-SHMIDT and STRAUSS), 1887, A., 508.
- Nitroso-oxindole (GABRIEL), 1883, A., 920; (v. BAEYER), 1883, A., 1131.
- Nitroso oxymethylquinoline. See Oxymethylquinoline.
- Nitroso-1- and -3-oxymethylquinoline, 2- and 4-, tinctorial properties of (v. KOSTANECKI), 1891, A., 579.
- d*-Nitrosopentamethylenetetramine (GHIES and HARROW), 1883, A., 1268.
- p*-Nitrosophenol. See Quinonoxime.
- μ -Nitrosophenylbenzylnitrosamine (BOEDDINGHAUS), 1891, A., 1206.

- Nitroso- ψ -phenylhydrazidomandelic acid (REISERT and KATSER), 1891, A., 439.
- Nitrosophenylic benzoate (WALKER), 1884, A., 1003.
- Nitroso-2'-phenylindole (FISCHER and SCHMIDT), 1885, A., 698.
- p*-Nitrosophenylmethyl nitrosamine (FISCHER and HEPP), 1887, A., 244.
- Nitroso-2'-phenyltetrahydroquinoline (DOFFNER and V. MILLER), 1886, A., 722.
- p*-Nitrosophenyl-*p*-toluidine (REHOLD), 1890, A., 609.
- Nitrosophthalimidine (GRAEF), 1885, A., 166.
- d*/Nitrosopiperazine (LADENBURG), 1891, A., 1333.
- tr*/Nitrosopropane (V. PICHMANN and WEHSARG), 1889, A., 34.
- β -Nitrosopropionic acid (V. PICHMANN), 1891, A., 1458; (HANZSCH), 1892, A., 1069.
- Nitrosopropiophenone (V. PICHMANN and MILLER), 1888, A., 1088; (CLAUSEN and MANASSÉ), 1889, A., 555; (GUDEMAN), 1889, A., 613.
- p*-Nitrosopropylaniline and nitrosamine of (WALKER), 1888, A., 466.
- 4-Nitrosoresorcinol, salts of (FELIX), 1883, A., 733; WALKER, 1884, A., 1003.
- d*/Nitrosoresorcinol (GOLDSCHEIDT and STILGEN), 1887, A., 808.
- Nitrosoresorcinoldisulphonic acid (LITZEL), 1889, A., 510.
- Nitrosostrychnic acid (TAFFI), 1892, A., 1012.
- Nitrososulphides (PAYLL), 1883, A., 297.
- Nitrososulphonic acids, preparation of (LIMPKHIT), 1892, A., 475.
- Nitrosoterpene (GOLDSCHEIDT and ZIEGLER), 1885, A., 1210.
- p*-Nitroso- α -tetrahydronaphthylethylamine hydrochloride (BAMPLAGE and HELBIG), 1889, A., 892.
- Nitrosotetrahydroquinoline. *p*-*monom* and *d*- (ZIEGLER), 1888, A., 610.
- Nitrosotetramethyl-*d*/amidobenzophenone, salts of (BISCHOFF), 1889, A., 511.
- Nitrosotetramethylphenylenediamine hydrochloride, and derivatives of (WILLI), 1885, A., 782.
- Nitrosothiomethylaniline and nitrosothionylmethylaniline (MICHAELIS and GODCHAUX), 1891, A., 74.
- 6-Nitrosothymol (SUTKOWSKI), 1887, A., 41.
- action of hydroxylamine on (KEHRMANN and MESSINGER), 1890, A., 1403.
- 2:5-*d*/Nitrosotoluene (MEHNE), 1888, A., 463; (NIETZKI and GUTIERMANN), 1888, A., 471.
- ω -Nitroso-*o*-toluidine (MEYER), 1886, A., 63.
- Nitrosotoluidines (MEHNE), 1888, A., 463.
- Nitrosotriacetone (FISCHER), 1884, A., 1290.
- Nitrosotriphenyl-*d*/amidobenzene (MINUNNI), 1891, A., 190.
- Nitrosotriphenylmethyl aniline (EISEN), 1884, A., 1031.
- Nitrosotriphenylmethyl-*p*-toluidine (WITTECH), 1884, A., 1032.
- Nitrosotri-*p*-tolyl-*d*/amidobenzene (MINUNNI), 1891, A., 190.
- 2:5-*d*/Nitroso-*p*-xylene (PFLUG), 1890, A., 607.
- d*/Nitroso-*m*-xylencarboxylic acid (CLAUS), 1890, A., 940.
- 5-Nitroso-*p*-xylenol. See *p*-Xyloquinoneoxime.
- d*/Nitroso-*m*-xylylglyoxylic acid (CLAUS), 1890, A., 979.
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- Nitrostilbene (DANSCHITZ and ROMIG), 1885, A., 768.
- o*-*d*/Nitrostilbene (BISCHOFF), 1888, A., 1094.
- p*-*d*/Nitrostilbene bromide (ELBS and BAYER), 1887, A., 151.
- Nitrostrychnic acid (LOEBISCH and SCHOPF), 1886, A., 514.
- Nitrostrychnine (LOEBISCH and SCHOPF), 1886, A., 267.
- d*/Nitrostrychnine and its salts (HANKEL), 1883, A., 669.
- Nitrostyrene. See Styrene.
- o*-Nitrostyryl methyl ketone (V. BAYER and DREWSEN), 1883, A., 341; (FISCHER and KILZ), 1883, A., 587.
- p*-Nitrostyryl methyl ketone (V. BAYER and BLAKER), 1883, A., 1120.
- o*-Nitrostyrylacrylic acid (DIEHL and EINHORN), 1885, A., 1222.
- m*-Nitro- α -styrylpyridine and its reduction products (SCHUFFAN), 1890, A., 1437.
- o*-Nitrostyrylvinyl methyl ketone (DIEHL and EINHORN), 1885, A., 1222.
- p*-Nitrostyrylvinyl methyl ketone (EINHORN and GEHRENBEEK), 1890, A., 162.
- p*-Nitro-*o* sulphamidobenzoic acid (NOYES and WILEY), 1889, A., 711.

- Nitrosulphates**, decomposition and properties of DIVERS and HAGA, 1885, T., 203.
 Pelouze's, conversion of, into hyponitrites and sulphites DIVERS and HAGA, 1885, T., 203; P., 25.
- p*-Nitro-*o*-sulphobenzoic acid** KASHE, 1889, A., 711; (HAUSSE, 1892, A., 479.
- Nitrosulphotoluic acid** LIMPRIHI, 1885, A., 1234.
- Nitrosyl bromide** (*nitrogenic bromide*) (FROEHLH, 1884, A., 1258.
- Nitrosyl chloride** (*nitrogenic chloride*), absorption spectrum of MANNING, 1890, A., 97.
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- Nitrosyl sulphate** (*nitrogenic sulphate*), preparation of RAMSAY and CUNDALE, 1885, T., 197.
- Nitrotartrazinesulphonic acid**, sodium derivative of (LEICH, 1889, A., 881.
- Nitroterebenthene** (PESCI and BERTELLI, 1887, A., 272; PIERI, 1889, A., 157.
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- Nitroterephthalaldehyde**, action of potassium cyanide on HOMOLKA and LOW, 1886, A., 701.
- di*-Nitrotetrahydro-quinoline** and **quinolylcarbamide** (SIMON-THOMAS), 1892, A., 726.
- p*-Nitrotetrahydroxytoluene** (KEHRMANN and BRASCH, 1889, A., 970.
- Nitrotetramethylamidodiphenylmethane** (VAN ROMBERG, 1889, A., 146.
- p*-Nitrotetramethylamidodiphenyltolylmethane** (NOLTING, 1891, A., 727.
- di*-Nitrotetramethylapionole** (CAMICIAN and SIMON, 1890, A., 1295.
- tetra*-Nitrotetraphenylpyrroline** FINKLIN, 1889, A., 623.
- tetra*-Nitrotetraphenylsilicon** (POISSON, 1886, A., 619.
- o*-Nitrotetraphenylamidotriphenylmethane** (FISCHER and SCHMIDT, 1884, A., 1316.
- p*-Nitrotetraphenylamidotriphenylmethane** (KAEWILM, 1886, A., 553.
- Nitrothienol** (SPADLER, 1885, A., 1205.
- Nitrothienylglyoxylic acid** (PETER, 1885, A., 764.
- Nitro-*l*-thiobenzaldehydeacetic acids** BONGARTZ, 1886, A., 937.
- Nitrothiobenzotoluidide** (GUELLEMAN and NEUBERG, 1892, A., 599.
- Nitrothiophen**. See Thiophen.
- Nitrothiophencarboxylic acid** (ROMER), 1887, A., 362.
- Nitrothiophensulphonic acid** and its salts SPADLER, 1885, A., 764.
 2-*o*-*di*-Nitrothymol MAZZARA, 1890, A., 602, 755.
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- 3-Nitro-*p*-tolenylamidoxime** WEISE, 1890, A., 47.
- m*-Nitro-*o*-tolidine** (LOEWENHOFER, 1892, A., 852.
- di*-Nitro-*o*-tolidine** GIBLER, 1888, A., 484.
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- o*-Nitro-*m*-tolnaldehyde** BORNIMANN, 1884, A., 1103.
- di*-Nitro-*m*-tolnaldehyde** (BORNIMANN, 1884, A., 1103.
- 3-Nitro-*p*-toluamide** NIEMENTOWSKI and KOZANSKI, 1888, A., 1085; WEISE, 1890, A., 47.
- m*-Nitro-*p*-toluamide** (WEISE, 1890, A., 47.
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- o*-*l*-Nitrotolueneaniline** (HEPP, 1883, A., 317.
- m*-Nitrotoluene-*p*-azooacetacetic acid** and **-*p*-azooacetone** (BAMBERGER, 1885, A., 157, 158.
- m*-Nitrotoluene-*p*-azobenzoylacetic acid** (BAMBERGER and CALMAN, 1886, A., 62.
- Nitrotoluenenaphthalene**, *di*- and *tri*- (HEPP, 1883, A., 318.
- 4-Nitrotoluene-2 sulphonic acid** (HAUSSE, 1891, A., 73.
- 2-Nitrotoluene-3-sulphonic acid** and its salts (FOHR, 1886, A., 153.
- 2-Nitrotoluene-5-sulphonic acid** and its salts (LIMPRIHI, 1885, A., 1234; (FOHR, 1886, A., 153.
- Nitrotoluic acid**. See Toluic acid.
- Nitrotoluidine**. See Toluidine.
- 3-Nitro-*o*- and -*p*-toluidine-2- and -5-sulphonic acids** (NITZKE and POLLINI, 1890, A., 502.
- 2-Nitro-*p*-toluidine-5-sulphonic acid** and its derivatives (LIMPRIHI), 1885, A., 1233; FOHR, 1886, A., 152.
- 3-Nitro-*p*-toluonitrile** (LEUCKART), 1886, A., 351; (NIEMENTOWSKI), 1888, A., 837; (WILSON, 1890, A., 47.

- 3:5-*di*Nitro-*p*-toluonitrile (CLAUS and BETSEN), 1892, A., 177.
- di*Nitrotoluquinol (WENDER), 1890, A., 752.
- 4:6-*di*Nitrotoluquinol (KEHRMANN and BRASCH), 1889, A., 969.
- Nitro-*p*-tolylacetic acids, *mono*-2- and 2:6-*di*- (CLAUS and WEHR), 1891, A., 1365.
- di*Nitro-*m*-tolylacetic acid (SENKOWSKI), 1889, A., 255.
- o*-Nitro-*p*-tolylamidocetic acid (PLOGHL), 1886, A., 351.
- salts of (LEUCKART and HERMANN), 1887, A., 383.
- m*-Nitro-*p*-(*o*-tolylamidobenzoic acid (HEIDENLEBEN), 1891, A., 306.
- m*-Nitro-*p*-(*p*-tolylamidobenzoic acid (SCHOPFF), 1890, A., 374; (HEIDENLEBEN), 1891, A., 306.
- m*-Nitro-*p*-tolylamidonaphthaquinone (LEICESTER), 1890, A., 1447.
- 3-Nitro-*p*- α -tolylamidopropionic acid (HINSBERG), 1892, A., 1359.
- m*-Nitro-*p*-tolylamidotoluquinone (LEICESTER), 1890, A., 1446.
- tri*Nitrotolylaniline. See *tri*Nitrilidotoluene.
- 6-Nitrotolylisobutyric acid (EFFRONT), 1885, A., 152.
- p*-Nitrotolylidimethyl/*di*amidodiphenylmethane (NOLING), 1892, A., 189.
- p*-Nitrotolylidimethyl/*di*amidodiphenylmethane (NOLING), 1891, A., 727.
- p*-Nitrotolylidimethyldiethyl/*di*amidodiphenylmethane (NOLING), 1891, A., 728.
- Nitrotolylenebenzenylamidine (BISTRZYCKI and ULFFERS), 1892, A., 1197.
- di*Nitro-2:4-tolylenediamine (NIETZKI and ROSEL), 1891, A., 192.
- tri*Nitro-2:4-tolylenediamine (PALMER), 1889, A., 390.
- Nitrotolylene-ethenylamidines, *mono*- and *di*- (BANKIEWICZ), 1888, A., 1184; BISTRZYCKI and ULFFERS, 1892, A., 1197.
- Nitrotolylene-oxyethenyldiamine (BANKIEWICZ), 1888, A., 1184.
- o*-Nitro-*p*-tolylethylthiourethane (STEUDERMANN), 1884, A., 307.
- 2-Nitrotolylhydrazine-3-sulphonic acid (LIMPRICH), 1885, A., 1216; (FOHL), 1886, A., 153.
- Nitrotolyllic cyanate (GATTERMANN and CANZLER), 1892, A., 833.
- Nitrotolylnitrotoluen-sulphazide (LIMPRICH), 1887, A., 723.
- Nitrotolylloxamic acid and its derivatives (HINSBERG), 1883, A., 323; (SCHIFF and VANNI), 1892, A., 601.
- Nitrotolylloxamide (SCHIFF and VANNI), 1892, A., 601.
- di*Nitro *p*-tolylxyethylphthalimide (SCHREIBER), 1891, A., 562.
- Nitro-*m*-tolylpropionic acid (EFFRONT), 1885, A., 152.
- m*-*di*Nitro- α -*p*-tolylpropionic acid (ERRERA and BALDRACCO), 1892, A., 606.
- o*-Nitro-*p*-tolyl-thiocarbamide and -thiocarbimide (STEUDERMANN), 1884, A., 307.
- o*-Nitro-*p*-tolylthiourethane (STEUDERMANN), 1884, A., 307.
- p*-Nitrotolylurethane (SCHIFF and VANNI), 1892, A., 601.
- Nitrotriacytyldiamido- α -naphthol (MEERSON), 1888, A., 713.
- di*Nitrotrianilidobenzene (PALMER and JACKSON), 1890, A., 248.
- tri*Nitrotrianilidobenzene (JACKSON and WING), 1888, A., 1276.
- Nitrotriazines, reduction of (MELDOLA and FORSTER), 1891, T., 701.
- tri*Nitrotribenzylphosphine oxide (COLLIE), 1889, T., 225.
- Nitrotriethyl-gallio acid and -pyrogallol (SCHIFFER), 1892, A., 716.
- Nitrotrihydroxybenzophanones (GRAEBE and EICHENGRUN), 1892, A., 1225.
- di*Nitrotrihydroxyethylbenzene (NIETZKI and KAUFMANN), 1892, A., 315.
- di*Nitro-1:2:4-trimethoxybenzene (SCHWEITZER), 1889, A., 390.
- Nitro-1:2:4-trimethylantraquinones, α - and β - (ELBS), 1890, A., 513.
- di*Nitro-1:2:4-trimethylantraquinone (ELBS), 1890, A., 513.
- Nitrotriphenylamines, *mono*- and *di*- (HENZ), 1890, A., 1403.
- tri*Nitrotriphenylamine (HEYDRICH), 1885, A., 1213.
- tetra*Nitrotriphenylbenzene (MELLIN), 1890, A., 1423.
- Nitrotriphenylearbitamides, *m*- and *p*- (LELLMANN and BONHOFER), 1887, A., 936.
- m*-Nitrotriphenylcarbinol (TSCHACHER), 1888, A., 373.
- p*-Nitrotriphenylcarbinol (v. BAER and LOHR), 1890, A., 1141.
- m*-Nitrotriphenylguanidine (LOSANITSCH), 1883, A., 583.
- β -Nitrotriphenylguanidine *dicyanide* (HIRSCH), 1888, A., 947.
- tri*Nitrotriphenylguanidine and its hydriolide (LOSANITSCH), 1883, A., 582, 583.
- tri*Nitrotriphenylic phosphate (RAPP), 1894, A., 1138.

- m*-Nitrotriphenylmethane (TCHACHER, 1887, A., 44; 1888, A., 373.)
- p*-Nitrotriphenylmethane v. BAEYLL and LOHN, 1890, A., 1141.
- Nitrotriphenylphosphine oxide MICHALLIS and V. SODEN, 1884, A., 1180.
- tri*Nitrotri-*p*-tolylbenzene (CLAUS, 1890, A., 770.)
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- Nitrous anhydride. See Nitrogen trioxide.
- Nitrous ether. See Ethylic nitrite.
- "Nitrous ether. spirit of," estimation of DUFF, 1855, A., 1013.
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- β -Nitroisovaleric acid (BREDI, 1883, A., 176.)
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- β -*d*-Nitroxanthone, action of reducing agents on (PERKIN, 1883, T., 190.)
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- d*-Nitro-*m*-xylalphthalide (HEILMANN, 1891, A., 201.)
- Nitro-*m*-xylalphthalimidine (HEILMANN, 1890, A., 625; 1891, A., 201.)
- Nitroxylene. See Xylene.
- Nitro-*m*-xylenediazopiperidine (AHRENS, 1892, A., 1437.)
- Nitro-*m*-xylene-4-sulphonic acids, 2-, 5- and 6-*m*mo- and 2:6- and 5:6-*di*- (CLAUS and SCHMIDT, 1886, A., 708.)
- Nitroxyleneol and its derivatives (PFAFF, 1883, A., 802, 918.)
- 5-Nitro-*p*-2-xyleneol, ethylic salt of (NOLLING, WITT and FOREL, 1886, A., 58.)
- 3:5-*di*Nitro-*o*-4-xyleneol (NOLLING and PICK, 1889, A., 129.)
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- 2-Nitro-*m*-4-xylidine and its acetyl-derivative (GREVING, 1885, A., 144.)
- Nitro-*p*-xylidine (NOLLING, WITT and FOREL, 1886, A., 56; (WITT, 1889, A., 604.)
- Nitroxylidinesulphonic acid [1:3:6:6:4] (LIMPRECHT, 1885, A., 1234.)
- Nitro-*m*-xylidyl methyl ketones, 2- and 6- (CLAUS, 1890, A., 980.)
- 2:6-*d*-Nitro-*m*-xylidyl methyl ketone (CLAUS, 1890, A., 981.)
- 2:6-*d*-Nitro-*m*-xylidyl nitrosomethyl ketone (CLAUS, 1890, A., 981.)
- 4-Nitroxylidylacetic acid and its salts (WISPEK, 1883, A., 1096.)
- 6-Nitro- and 2:6-*d*-nitro-*m*-xylidylglyoxylic acids (CLAUS, 1890, A., 980.)
- Nitro-*p*-xylidylphosphonic acid (WELLES, 1888, A., 536.)
- Nitruracil KOHLER, 1887, A., 128.
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- Nitruracilcarboxylic acid (KOHLER, 1887, A., 128.)
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- Nitruramidobenzoic acid, 6:3-, 4:3-, 2:3-, action of potash on (GRIESS, 1883, A., 57.)
- 5:3-Nitruramidobenzoic acid (GRIESS, 1885, A., 54.)
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- 3:5-*di*Nitro-*p*-toluonitrile (CLAUS and BEYSEN), 1892, A., 177.
- di*Nitrotoluquinol (WENDER), 1890, A., 752.
- 4:6-*di*Nitrotoluquinol (KEHRMANN and BRASCH), 1889, A., 969.
- Nitro-*p*-tolylacetic acids, *mono*-2- and 2:6-*di*- (CLAUS and WEHR), 1891, A., 1865.
- di*Nitro-*m*-tolylacetic acid (SENKOWSKI), 1889, A., 255.
- o*-Nitro-*p*-tolylamidoacetic acid (PLOCHEL), 1886, A., 351.
- salts of (LEUCKART and HERMANN), 1887, A., 388.
- m*-Nitro-*p*-(*o*-tolylamidobenzoic acid (HEIDENSLIEBEN), 1891, A., 306.
- m*-Nitro-*p*-(*p*-tolylamidobenzoic acid (SCHÖPF), 1890, A., 374; (HEIDENSLIEBEN), 1891, A., 306.
- m*-Nitro-*p*-tolylamidonaphthaquinone (LEICESTER), 1890, A., 1447.
- 3-Nitro-*p*: α -tolylamidopropionic acid (HINSBERG), 1892, A., 1359.
- m*-Nitro-*p*-tolylamidotoluquinone (LEICESTER), 1890, A., 1446.
- tri*Nitrotolylaniline. See *tri*Nitranilidoluene.
- 6-Nitrotolylisobutyric acid (EFFRONT), 1885, A., 152.
- p*-Nitrotolylidimethyl δ amidodiphenylmethane (NÖLTING), 1892, A., 189.
- p*-Nitrotolylidimethyl δ amidodiphenylmethane (NÖLTING), 1891, A., 727.
- p*-Nitrotolylidimethyldiethyl δ amidodiphenylmethane (NÖLTING), 1891, A., 728.
- Nitrotolylenebenzenylamidine (BISTRZYCKI and ULFFERS), 1892, A., 1197.
- di*Nitro-2:4-tolylene-diamine (NIETZKI and ROSEL), 1891, A., 192.
- tri*Nitro-2:4-tolylene-diamine (PALMER), 1889, A., 390.
- Nitrotolylene-ethenylamidines, *mono*- and *di*- (BANKIEWICZ), 1888, A., 1184; (BISTRZYCKI and ULFFERS), 1892, A., 1197.
- Nitrotolylene-oxyethenyldiamine (BANKIEWICZ), 1888, A., 1184.
- o*-Nitro-*p*-tolylethylthiourethane (STEUEDEMANN), 1884, A., 307.
- 2-Nitrotolylhydrazine-5-sulphonic acid (LIMPRICHT), 1885, A., 1216; (FOTH), 1886, A., 153.
- Nitrotolyl cyanate (GATTERMANN and CANTZLER), 1892, A., 833.
- Nitrotolyl nitrotoluenesulphazide (LIMPRICHT), 1887, A., 723.
- Nitrotolylloxamic acid and its derivatives (HINSBERG), 1883, A., 323; (SCHIFF and VANNI), 1892, A., 601.
- Nitrotolylloxamide (SCHIFF and VANNI), 1892, A., 601.
- di*Nitro-*p*-tolylxyethylphthalimide (SCHREIBER), 1891, A., 552.
- Nitro-*m*-tolylpropionic acid (EFFRONT), 1885, A., 152.
- m*-*di*Nitro-*a*:*p*-tolylpropionic acid (ERRERA and BALDRACCO), 1892, A., 606.
- o*-Nitro-*p*-tolyl-thiocarbamide and -thiocarbimide (STEUEDEMANN), 1884, A., 307.
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- p*-Nitrotolylurethane (SCHIFF and VANNI), 1892, A., 601.
- Nitrotriacyldiamido- α -naphthol (MEERSON), 1888, A., 713.
- di*Nitrotrianilidobenzene (PALMER and JACKSON), 1890, A., 248.
- tri*Nitrotrianilidobenzene (JACKSON and WING), 1888, A., 1276.
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- tri*Nitrotribenzylphosphine oxide (COLLIE), 1889, T., 225.
- Nitrotriethyl-gallic acid and -pyrogallol (SCHIFFER), 1892, A., 716.
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- di*Nitro-1:2:4-trimethylantraquinone (ELBS), 1890, A., 513.
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- tri*Nitrotriphenylamine (HEYDRICH), 1885, A., 1213.
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- tri*Nitrotriphenylguanidine and its hydriodide (LOSANITSCH), 1883, A., 582, 583.
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- Phenylallylhydrazine** (FISCHER and KNOEVENAGEL), 1887, A., 933.
- as*-Phenylallylhydrazine** (MICHAELIS and CLAESSEN), 1889, A., 1161.
- Phenylallylhydrazonophthalaldehydic acid** (ALLENDORFF), 1891, A., 1371.
- Phenylallylideneamidodimethylaniline** (NUTH), 1885, A., 784.
- Phenylallylsemithiocarbazide** (DIXON), 1890, T., 262; P., 25.
- Phenylallylsulphone** (OTTO), 1891, A., 1067.
- Phenylallyltetrazone** (MICHAELIS and CLAESSEN), 1889, A., 1161.
- Phenylamidine**. See Phenylamidoimidoethenylamidophenyl mercaptan.
- Phenylamidoacetic acid**, derivatives of (KOSSEL), 1892, A., 467.
 calcium salt of (MAUTHNER and SUIDA), 1889, A., 1068.
- Phenylamidoacetomethylanilide** (*phenylglycinnmethylanilide*) (BISCHOFF), 1888, A., 726.
- Phenyl- m -amidobenzylamine** (BORG-MANN), 1886, A., 57.
- 1-Phenylamido-2:5-dimethylpyrroline-3:4-dicarboxylic acid** (KNORR), 1885, A., 555.
- Phenylamidoditolylmethane** (ULLMANN), 1885, A., 1236.
- Phenylamidoimidoethenylamidophenyl mercaptan** (*phenylamidine*) (V. HOFMANN), 1887, A., 1040.
- Phenyl- β -amidolactic acid** (ERLENMEYER), 1889, A., 983.
- "Phenylamidomesoxalic chloride"** (NEF), 1892, A., 1439.
- Phenylamidomethenylamido- (*carbanil-amido*)-cresol, -cumenol, - α - and - β -naphthols, and -phenanthrol** (JACOBSON and SCHENCKE), 1890, A., 248.
- Phenylamidomethenylamidonaphthol** (JACOBSON), 1888, A., 487.
- Phenylamidomethenylamidothiophenol** (JACOBSON and FRANKENBACHER), 1891, A., 1049.
- 6-Phenylamido-5-methyl-2:4-diethyl- m -diazine** (V. MEYER), 1889, A., 685.
- 4-Phenylamido- β -naphthol**, *dichloro*- (ZINKE and KEGEL), 1889, A., 268.
- Phenylamidonaphthylcarbamide** (GOLD-SCHMIDT and ROSELL), 1890, A., 616.
- Phenyl-*di-p*-amidophenylisobutylmethane, *m*- and *p*-nitro-** (BISCHLER), 1889, A., 133.
- Phenyl-*m*-amidophenylmethylcarbamide** (*m-amido-s-diphenylmethylcarbamide*) (LELLMANN and BENZ), 1891, A., 1215.
- Phenyl- α -amidopropionic acid**, formation of, by the action of stannous chloride on albuminoids (SCHULZE and BARBIERI), 1883, A., 1122.
 formation of, by the decomposition of albumin (SCHULZE and BARBIERI), 1885, A., 581.
 from the decomposition of proteids (SCHULZE and NÄGELI), 1887, A., 369.
 See also α -Anilidopropionic acid.
- β -Phenylamidopropionic acid**. See β -Anilidopropionic acid.
- Phenyl- α -amidopropionitrile** (ERLENMEYER and LIPP), 1883, A., 992.
- Phenylamidoquinaldine**. See Anilido-2'-methylquinoline.
- Phenyl-*di-p*-amidotolylmethane, *m*-amido-** (BISCHLER), 1889, A., 133.
 α - and β -*m*-nitro- (BISCHLER), 1889, A., 133.
 α - and β -*p*-nitro- (BISCHLER), 1888, A., 287.

- Phenyl-diamido-*m*-xylylmethane**, *m*- and *p*-nitro- (BISCHLER), 1889, A., 134.
- Phenylamido-**. See also Anilido-.
- Phenylamine**. See Aniline.
- Phenylamines**, compounds of benzotrichloride with (DOEBNER), 1883, A., 861.
substituted, action of silicon tetrachloride on (REYNOLDS), 1892, T., 453.
- Phenylammeline** [m.p. 125°] (SMOLKA and FRIEDREICH), 1890, A., 618.
- Phenylammeline** [m.p. 245°] (OTRO), 1887, A., 1034.
- 1-Phenylammoniochelidonic acid** (LIEBEN and HAITINGER), 1884, A., 1196.
- Phenylamylacetonitrile** (*phenylheptonitrile*) (ROSSOLYMO), 1889, A., 862.
- γ -Phenyl- α -isocamylbutenyllactone** (PAAL and HOFFMANN), 1890, A., 1101.
- β -Phenyl- α -isocamylbutyrolactone** (PAAL and HOFFMANN), 1890, A., 1101.
- Phenylamylcarbamide** (FREUND and LENZE), 1890, A., 1388.
- Phenylamylene** (*phenylpentylene*) and its dibromide (SOHRAMM), 1883, A., 977.
See also Amenylbenzene.
- Phenyl- α -isocamylhydrazine** (PHILIP), 1887, A., 1104.
- Phenylamylthiocarbamide** (FREUND and LENZE), 1890, A., 1388.
- Phenylamyl-**. See also Amylphenyl-.
- Phenylangelic acid**, formation of (SLOCUM), 1885, A., 662.
preparation of (EDELFRANU), 1891, A., 1225.
- Phenylangelicalactones** (ERDMANN), 1890, A., 377; (FITTIG and STERN), 1892, A., 987.
- α -Phenylanisacrylonitrile** (FRONT), 1889, A., 598.
- Phenyl-*o*-anisylcarbamide** (GOLD-SCHMIDT and ERNST), 1890, A., 1411.
- Phenylanisylidesaurin** (NEFF), 1888, A., 1198.
- p*-Phenylanisylethane** (FREUND and REMSE), 1890, A., 1423.
- β -Phenyl- γ -*p*-anisylpropylamine** (FREUND and REMSE), 1890, A., 1423.
- o*-Phenylanisylthiocarbamide** (FOERSTER), 1888, A., 946.
- Phenylanisyluramidoxime** (HOCHHEIM), 1890, A., 1265.
- Phenylanthracene**, preparation of (LINEBARGER), 1892, A., 722.
- Phenylanthranilic acid** (GRAEBE and LAGODZINSKI), 1892, A., 1086.
- Phenylarabinosazone** (SCHEIBLER), 1884, A., 1287.
- Phenylarsine sulphides** (SCHULTE), 1883, A., 186.
- Phenylasparaginphenylimide** (*phenylasparaginanil*) (PIUTTI), 1885, A., 796; (ANSCHÜTZ and WIRTZ), 1887, A., 934.
- Phenylaspartanil** (OSSIOFF), 1889, A., 124.
- Phenylaspartic acid** (*anilidosuccinic acid*) (ANSCHÜTZ and WIRTZ), 1887, A., 934; (HELL and POLIAKOFF), 1892, A., 819.
derivatives of (KUSSEROW), 1889, A., 1064.
- Phenylauramine and its salts** (FEHRMANN), 1888, A., 157.
- Phenylazo-**. See under Azo-.
- Phenylbenzenylamidine** (LOSSEN), 1892, A., 51.
- Phenylbenzenylimidoximecarbonyl** (MULLER), 1886, A., 875.
- Phenylbenzenyl- $\alpha\beta$ -naphthylenediamine** (FISCHER), 1892, A., 1472.
- Phenylbenzhydryl-*o*-benzoic lactone** (ELBS), 1890, A., 514.
- Phenylbenzidine**, *di-o*-nitro- (SCHOPPE), 1889, A., 773.
- Phenylbenzimidooethyl ether** (LOSSEN), 1892, A., 52.
- Phenylbenzocreatine** (TRAUBE), 1883, A., 193.
- Phenylbenzoglycocylamidine** (GRIESS), 1885, A., 1227.
imido- (GRIESS), 1885, A., 1225.
- Phenylbenzoglycocylamidinecarboxylic acid** (GRIESS), 1885, A., 1227.
- Phenylbenzoglycocylamine and amido-**, and their hydrochlorides (GRIESS), 1883, A., 669.
- Phenylbenzoic acid**. See *o*-Diphenylcarboxylic acid.
- Phenylbenzo- β -naphthacridine** (CLAUS and RICHTER), 1884, A., 1359.
- p*-Phenylbenzophenone and its oxime and phenylhydrazone** (KOLLER), 1892, A., 186.
- Phenylbenzoyl-**. See Benzoylphenyl-.
- 1-Phenylbenzoyl-oximepyrazole and -phenylhydrazonopyrazole** (BALBIANO), 1890, A., 798.
- Phenylbenzylacetic acid** [b.p. 330°] (MEYER), 1888, A., 693; (V. MILLER and ROHDE), 1892, A., 1211.
- Phenylbenzylacetoxime-*o*-carboxylic acid** (GABRIEL), 1885, A., 903.

- Phenylbenzylamylcarbonyl cyanide (*diphenyloctonitrile*) (ROSSOLYMO), 1889, A., 862.
- Phenylbenzyl-*o*-benzoic acid (ELBS), 1890, A., 514.
- Phenyl-*p*-benzylcarbamide (*p*-*diphenylmethanecarbamide*) (MANNS), 1889, A., 261.
- Phenylbenzylcarbamide, *m*-nitro- (KÜHN and RIESENFELD), 1892, A., 312.
- Phenylbenzylethylthiocarbamide (DIXON), 1891, T., 564.
- Phenylbenzylethylthiocarbamides, isomeric (DIXON), 1892, T., 540.
- Phenylbenzylformamidine (COMSTOCK and CLAPP), 1892, A., 708.
- Phenylbenzylhydrazine phosphenite (MICHAELIS and OSTER), 1892, A., 1325.
- o*-amido-, and *o*-nitro- (PAAL and BODEWIG), 1892, A., 1455.
- Phenyl- α -benzylhydrazine (PHILIPS), 1887, A., 1104; 1889, A., 1159.
- Phenyl-*p*-benzylhydrazine (*diphenylmethanecarbamide*) (MANNS), 1889, A., 261.
- Phenylbenzylhydrazine, thionyl- (MICHAELIS and RUHL), 1892, A., 1324.
- Phenylbenzylhydroxycarbamide (TIEMANN), 1889, A., 1165; (VOLTMER), 1890, A., 1127; 1891, A., 559.
- Phenylbenzylhydroxythiocarbamide (TIEMANN), 1889, A., 1165; (VOLTMER), 1890, A., 1126; 1891, A., 558.
- m*-Phenylbenzyl alcohol (ADAM), 1888, A., 959.
- Phenylbenzylidenemethylhydrazine (MICHAELIS and CLAESSEN), 1889, A., 1161.
- Phenylbenzylidenebenzylamidine (LELLMANN and STICKEL), 1886, A., 793.
- Phenyl-*o*-benzylidenediamine (SODERBAUM and WIDMAN), 1890, A., 1258.
- Phenylbenzylidene-ethylhydrazine (PHILIPS), 1889, A., 1158.
- Phenylbenzylidenehydrazine (REISERT), 1884, A., 1152; (PHILIPS), 1887, A., 1105.
- derivatives of (SCHROEDER), 1884, A., 1323.
- o*-nitro- (BISCHLER), 1890, A., 148.
- m*-nitro- (BISCHLER and BRODSKY), 1890, A., 150.
- thio- (RUHL), 1892, A., 1326.
- "Phenylbenzylidenehydrazine, *di*-cyano-" (BLADIN), 1889, A., 702.
- 2'-Phenylbenzylidenemethylhydrazine (ELBERS), 1885, A., 535.
- 1-Phenyl-4-benzylidene-3-methylpyrazolone (KNORR), 1887, A., 602.
- 1-Phenyl-4-benzylidene-3:5-pyrazolidone (MICHAELIS and BURMEISTER), 1892, A., 1005.
- 3':2'-Phenylbenzylindole (TRENKLER), 1889, A., 260.
- Phenylbenzylmethylcarbamide (KÜHN and RIESENFELD), 1892, A., 312.
- 1-Phenyl-3-benzyl-5-methyl-pyrazole (FISCHER and BULOW), 1885, A., 1237.
- Phenylbenzylmethylthiocarbamides (DIXON), 1891, T., 562, 564; P., 85.
- Phenylbenzylnitrosamine, preparation of (ANTRICK), 1885, A., 543.
- p*-nitroso- (BOEDDINGHAUS), 1891, A., 1206.
- Phenylbenzylisophosphine (MICHAELIS and GLEICHMANN), 1883, A., 185.
- Phenylbenzylpropylcarbonyl cyanide (ROSSOLYMO), 1889, A., 862.
- Phenylbenzylsemithiocarbamide (DIXON), 1892, T., 1021.
- Phenylbenzylsulphone (KNOEVENAGEL), 1888, A., 706; (OTTO), 1890, A., 380.
- crochlo*- (OTTO), 1890, A., 379.
- Phenylbenzylthiocarbamide (DIXON), 1889, T., 300.
- asymmetrical (WERNER), 1892, P., 97.
- cyano- (FREUND and IMMERWAHR), 1890, A., 1408.
- Phenylbetainamide chloride (SILBERSTEIN), 1885, A., 160.
- Phenylbiazolone, amido- (FREUND and KÜH), 1890, A., 1441.
- Phenylbismuthine *di*bromide (MICHAELIS), 1887, A., 368.
- Phenylbismethyltetrahydroquinolymethane, amido-. See Phenyldimethyloctohydrodiquinolymethane, amido-.
- Phenyl- γ -*di*bromomethyl- β -bromacrylic acid, *p*-nitro- (EINHORN and GEHRENBECCK), 1889, A., 396; 1890, A., 162.
- Phenylbromomethylactic acid, *p*-nitro-, lactone of (EINHORN and GEHRENBECCK), 1889, A., 397.
- Phenyl*di*bromobutinenecarboxylic acid, *p*-nitro- (EINHORN and GEHRENBECCK), 1889, A., 396.
- Phenyl*tri*bromomethane (INCE), 1885, P., 131.
- Phenyl-*mono*- and -*di*-bromomethylsulphones (OTTO), 1890, A., 381.
- Phenyl*di*bromonitromethane (GABRIEL and KOPPE), 1886, A., 693.

- Phenylisobromoparaconic acid (FITTIG and LEONI), 1890, A., 895.
- Phenyl-*p*-bromophenylhydrazine, *o-p*-dinitro- (WILLGERODT and ELLON), 1891, A., 1362.
- Phenylisobromopropenylethoxime chloride (WOLFF), 1890, A., 42.
- Phenyl- β -bromopropionic acid, and its derivatives (BASLER), 1884, A., 603.
- 5-chloro-2-nitro- (EICHENGRUN and EINHORN), 1890, A., 1127.
- o*-nitro-, and its derivatives (EINHORN), 1884, A., 65.
- m*-nitro- (PRAUSNITZ), 1884, A., 1175.
- β -Phenyltribromopropionic acid (KINNIGUTT and PALMER), 1884, A., 603.
- Phenyl- β - and - γ -bromopropylacetamides (ELFELDT), 1892, A., 214.
- Phenyl- β -bromoisuccinic acid, *o*- and *p*-nitro- (STUART), 1886, T., 362.
- Phenyl δ bromoisuccinic acid (STUART), 1886, T., 360.
- m*- and *p*-nitro- (STUART), 1886, T., 361.
- α -Phenyltribromothiophen, *p*-bromo- (KUES and PAAL), 1887, A., 239.
- n*-Phenylbromotrimethylene- ψ -thiocarbamide (DIXON), 1892, T., 550.
- Phenylisobutaldehyde (v. MILLER and ROHDE), 1890, A., 979.
- Phenylbutane. See Butylbenzene.
- Phenylbutinene methyl ketone. See Styrylvinyl methyl ketone.
- Phenylbutinenecarboxylic acids, nitro- (EINHORN and GEHRENBACH), 1889, A., 271; 1890, A., 163.
- Phenylbutinenedicarboxylic acid (STUART), 1886, T., 366.
- Phenylisobutylallyl-carbamide and -thiocarbamide (PAAL and HEUPEL), 1892, A., 31.
- Phenylbutylamine (*butylaniline*) (KAHN), 1886, A., 263.
- Phenylisobutylamine. See *iso*Butylbenzene, amido-.
- Phenylbutylene (*isobutenylbenzene*) (FITTIG and JAYNE), 1883, A., 471; (FITTIG and LIEBMANN), 1890, A., 777.
- β -Phenylbutylene, molecular refraction and dispersion of (GLADSTONE), 1891, T., 295.
- Phenyl- α -isobutylhydrazine (PHILLIPS), 1887, A., 1104.
- Phenylisobutyl-hydrazine and -hydrazone, thionyl- (MICHAELIS and RUHR), 1892, A., 1324.
- s*-Phenylisobutylthiocarbamide (HECHT), 1892, A., 702.
- Phenylisobutylthiocarbimide (PAHL), 1884, A., 1010.
- Phenylbutyric acid (JAYNE), 1883, A., 473.
- α - and β -bromo- (JAYNE), 1883, A., 472; (FITTIG and MORRIS), 1890, A., 891.
- $\alpha\beta$ -dibromo-, decomposition of (FITTIG, OBERMULLER and SCHIFFER), 1892, A., 987.
- γ -chloro- (FITTIG and MORRIS), 1890, A., 891.
- α -iodo- (FITTIG and MORRIS), 1890, A., 891.
- Phenylisobutyric acid (*α -methylhydrocinnamic acid*), derivatives of (EDELEANU), 1887, A., 583; 1888, T., 558; P., 55.
- $\alpha\beta$ -dibromo- (A. KÖRNER), 1888, A., 368.
- derivatives of (A. KÖRNER), 1888, A., 368; (T. KÖRNER), 1889, A., 372.
- m*-chloro- (v. MILLER and ROHDE), 1890, A., 1110.
- p*-nitro- and nitramido- (EDELEANU), 1888, T., 558.
- α -Phenylbutyric acid (*phenylethylacetic acid*) (NEURR), 1889, A., 597.
- Phenylbutyric-*o*-carboxylic acids (ROSER), 1886, A., 213.
- Phenylbutyrolactone (JAYNE), 1883, A., 472.
- action of halogen acids on (FITTIG and MORRIS), 1890, A., 891.
- action of halogen acids and of gaseous ammonia on (FITTIG), 1884, A., 741.
- β -bromo- and isobromo- (FITTIG, OBERMULLER and SCHIFFER), 1892, A., 987.
- Phenylisobutyroxypivalic acid and anhydride (OTT), 1885, A., 663.
- Phenylacacetyl (*tetraphenylarsine*) (MICHAELIS and SCHULTE), 1883, A., 187.
- Phenylcarbamic acid, sulpho- (NOLTING), 1889, A., 144.
- Phenylcarbamide and its derivatives (PINNOW), 1892, A., 460.
- action of halogenated amines on (GATTERMANN), 1886, A., 795.
- bromo-derivatives of (BERTRAM), 1892, A., 467.
- di-p*-chloro- (HEWITT), 1891, T., 212.
- Phenylcarbamides, thio-, melting points of (PASHKOWETZKY), 1892, A., 324.
- Phenylcarbamyl-. See Carbanilido-.
- Phenylcarbazaclidine (BIZZARRI), 1891, A., 219.
- Phenylcarbazinecarboxyl-amide and -anilide (FREUND and GOLDSMITH), 1888, A., 1187.

- Phenylcarbizinecarboxylic acid**, amido- (FREUND and KUH), 1890, A., 1441.
- Phenylcarbizine-thiamide and -thianilide** (FREUND and GOLDSMITH), 1888, A., 1188.
- Phenylcarbylamine**. See **Phenyl isocyanide**.
- Phenyl-dichlorocarbonyldimethylcarbinol** (WILLGERODT and GENIESER), 1888, A., 811.
- Phenyl-m-chlorophenylhydrazine, *o-p*-dinitro-** (WILLGERODT and MÜLLER), 1892, A., 454.
- Phenyl-p-chlorophenylhydrazine, *o-p*-dinitro-** (WILLGERODT), 1890, A., 1119; (WILLGERODT and BOHM), 1891, A., 906.
- Phenylchrysylthiocarbamide** (ABEGG), 1891, A., 731.
- α -Phenyleinchonic acid** (2'-phenyl-quinoline-4'-carboxylic acid) (DOEBNER), 1887, A., 504.
- homologues of (DOEBNER and GIECKE), 1888, A., 300.
- Phenylcinnamyl-uramidethoxime and -uramidoxime** (WOLFF), 1890, A., 42.
- α -Phenylcinnamic acid**, derivatives of (CABELLA), 1884, A., 1848.
- o*-nitro- (OGIALORO-TODARO and ROSINI), 1891, A., 214.
- α -Phenylcinnamionitrile** (NEURE), 1889, A., 597.
- α -Phenyl- β -cinnamylideneacrylic acid** (REBUFFAT), 1885, A., 1137.
- α -Phenyl- β -cinnamylideneneacrylonitrile** (FREUND and IMMERWAHR), 1890, A., 1408.
- Phenylcitrazonazide**, nitro- (MICHAEL), 1886, A., 699.
- 1-Phenylcoumenamic acid** (MENYFL), 1885, A., 1203.
- Phenylconiline, *o-p*-dinitro-** (LELLMANN and JUST), 1891, A., 1245.
- Phenyl-p-coumaric acid**, synthesis of (OGIALORO-TODARO), 1884, A., 176.
- derivatives of (CABELLA), 1888, A., 694.
- Phenylcoumarin**, crystallography of (SCACCHI), 1885, A., 901.
- Phenylcoumarinsulphonic acids**, and their salts (TRATOLO), 1885, A., 539.
- Phenylcrotonaldehyde, *m*-amido-** (v. MILLER and KINKELIN), 1886, A., 701.
- m*-nitro- (v. MILLER and KINKELIN), 1886, A., 560.
- base from (v. MILLER and KINKELIN), 1886, A., 701.
- Phenylcrotonaldehyde, *m*-nitro-**, product of the reduction of (v. MILLER and KINKELIN), 1886, A., 799.
- Phenylcrotonic acid** (α -methylcinnamic acid: *phenylmethacrylic acid*) (STUART), 1883, T., 104, 407; (RAIKOW), 1888, A., 369.
- preparation of (ERDMANN), 1885, A., 528.
- formation of (SLOCUM), 1885, A., 662.
- nitration of, in the side chain (ERDMANN), 1891, A., 1488.
- action of sulphuric acid on (ERDMANN), 1885, A., 528.
- derivatives of (EDELANT), 1887, A., 583; 1888, T., 558; P., 55.
- β -bromo- (KORNER), 1888, A., 368.
- β -chloro- (PERKIN and CALMAN), 1886, T., 158; P., 139.
- m*-chloro- (v. MILLER and ROHDE), 1890, A., 1139.
- m*-nitro- (v. MILLER and ROHDE), 1890, A., 1140.
- Phenylisocrotonic acid** (β -phenylcrotonic acid) and its derivatives (JAYNE), 1883, A., 472; (BUCHNER and DESSAULT), 1892, A., 850.
- action of nitric acid on (ERDMANN), 1884, A., 906.
- oxidation of (FITTIG), 1888, A., 595; (FITTIG and OBERMÜLLER), 1892, A., 986.
- p*-chloro- (SCHWECHTEN), 1890, A., 620; (ERDMANN and SCHWECHTEN), 1891, A., 449.
- 2:4- and 2:5-dichloro- (SCHWECHTEN), 1890, A., 620; (ERDMANN and SCHWECHTEN), 1891, A., 450.
- 3:4-dichloro- (ERDMANN), 1889, A., 265; (SCHWECHTEN), 1890, A., 620; (ERDMANN and SCHWECHTEN), 1891, A., 451.
- Phenylcrotonitrilecarbamide** (PINNER and LIPSCHÜTZ), 1887, A., 1055.
- Phenylisocroton- α -lactone** (BIEDERMANN), 1892, A., 472.
- Phenylcumazonic acid** (WIDMAN), 1884, A., 304.
- Phenylcumylthiocarbamide** (GOLDSCHMIDT and GESSNER), 1887, A., 1039.
- Phenylcyanamide** and its derivatives (v. HOFMANN), 1886, A., 233.
- preparation of (BERGER), 1884, A., 1157.
- action of acetamide on (BERGER), 1885, A., 387.
- Phenylcyanethine**. See **6-Phenyl-amido-5-methyl-2:4-diethyl-*m*-thiazine**.

- Phenyleantetrazole (BLADIN), 1887, A., 139.
- Phenylisocyanuric acid (RATHKE), 1888, A., 591; (SMOLKA and FRIEDREICH), 1890, A., 618.
- Phenyl-*p*-cymylcarbinol (CLAUS and ELBS), 1885, A., 1065; (ELBS), 1887, A., 942.
- Phenyleysteine, bromo-, action of acetic anhydride on (BAUMANN), 1885, A., 514.
- Phenyldehydrohexone (PERKIN), 1887, T., 731.
action of hydrogen bromide on (PERKIN), 1887, T., 732.
- Phenyldehydrohexonecarboxylic acid (PERKIN), 1887, T., 728; (KIPFING and PERKIN), 1890, T., 308.
action of hydrogen bromide and of water on (PERKIN), 1887, T., 732.
p-nitro- (PERKIN), 1887, T., 736.
- Phenyldehydropentone (MARSHALL and PERKIN), 1891, T., 886.
- Phenyldi-*p*-acetamidoditolylmethane, β -*p*-nitro- (BUSCHLER), 1889, A., 132.
- Phenyldiacetyl (MULLER and v. PECHMANN), 1889, A., 1171.
- Phenyldiisocyanamine (LLOYD), 1887, A., 721; 1889, A., 700.
- Phenyldiamylhydrazine (GRIMALDI), 1891, A., 302.
- Phenyldianethoilmethane, *m*-nitro- (DE VARDA), 1891, A., 1347.
- Phenyldibenzylcarbamide (HAMMERICH), 1892, A., 1083.
- 5-Phenyl-2:4-dibenzyl-*m*-diazine, 6-amido- (WACHE), 1889, A., 684.
- as*-Phenyldibenzylthiocarbamide (DIXON), 1891, T., 567.
- Phenyldiisobutylamine (LLOYD), 1887, A., 721; 1889, A., 700.
- Phenyldiisobutylcarbamide, -guanidine and -thiocarbamide (PAHL), 1884, A., 1010.
- Phenyldi-*o*-cresolmethane (*phenyldihydroxyditolylmethane*), *m*-nitro- (SIBONI), 1892, A., 621.
- Phenyldiethyl ethylene oxide (HENRY), 1883, A., 803.
- Phenyldiethylacetamidine and its hydrochloride (LUCKENBACH), 1884, A., 1135.
- Phenyldiethylalkine. See Hydroxyethylthylaniline.
- Phenyldiethylarsine (SCHULTE), 1883, A., 186.
action of benzylidene chloride on (HOLLE), 1892, A., 984.
- Phenyldiethylazonium iodide (PHILIPS), 1889, A., 1168.
- Phenyldiethylcarbamide (GEBHARDT), 1885, A., 383.
- Phenyldiethylenetriamine (GABRIEL), 1889, A., 1167.
- Phenyldiethylethylidenetrisulphone (LAVES), 1892, A., 613.
- Phenyldiethylformamidine (COMSTOCK and WHEELER), 1892, A., 707.
- Phenyldiethylmethenyltrisulphone, and its chloro- and bromo-derivatives (LAVES), 1892, A., 613.
- Phenyldiethylthiocarbamine derivatives (BILLETER), 1887, A., 823.
- Phenyldifurylnaphthadihydroquinoxaline (FISCHER), 1892, A., 1475.
- Phenyldiguamide derivatives (SMOLKA and FRIEDREICH), 1888, A., 830.
- 2'-Phenyl-1':3'-dihydroindazine (PAAL), 1891, A., 724.
- 2'-Phenyldihydroindole (FISCHER and SCHMIDT), 1888, A., 699.
- Phenyldihydro- β -naphthatriazine, (GOLDSCHMIDT and POLTZER), 1891, A., 840.
- Phenyldihydro- β -phenotriazine (BUSCH), 1892, A., 734.
- Phenyldihydroquinazoline (PAAL and BUSCH), 1890, A., 72.
- Phenyldihydroquinolylmethane (EINHORN), 1886, A., 720.
- Phenyliisodihydroxybutyric acid (FISCHER and STEWART), 1892, A., 1448.
- Phenyliisodihydroxybutyric acid, salts of (FITTIG and OBERMULLER), 1892, A., 987.
- Phenyldihydroxyphenylmethanedicarboxylic acids, *o*-, *m*- and *p*-nitro- (DE VARDA), 1892, A., 621.
- ω -Phenyl- $\alpha\beta$ - and - $\alpha\omega$ -diketobutane (MULLER and v. PECHMANN), 1889, A., 1171.
- Phenyldiketodimethylanilidopiperidinecarboxylic acid (REISSERT), 1888, A., 697.
- Phenyldiketomethylanilido-*mono*- and *di*-bromopyrrolidines (REISSERT), 1890, A., 642.
- Phenyldiketomethylanilido-*dichloro*-pyrrolidine (REISSERT), 1890, A., 643.
- Phenyl- $\alpha\delta$ -diketopiperazine (BISCHOFF), 1889, A., 1015.
- α -Phenyl- $\alpha\omega$ -diketopropane. See Phenyl methyl diketone.
- Phenyldimethyl-. See also Xyl-.
- Phenyldimethylacetamidine, *s*- and *as*- (LUCKENBACH), 1884, A., 1135.
- Phenyldimethylarsine, action of benzylidene chloride on (HOLLE), 1892, A., 984.

- Phenyldimethylethylammonium iodide (CLAUS and HOWITZ), 1884, A., 1005.
- tri-, penta-, and hepta-*iodides (GUTHERT), 1887, A., 910.
- 2-Phenyl-4:5-dimethylglyoxaline (WADSWORTH), 1890, T., 9.
- 4-Phenyl-2:6-dimethylhexahydropyridine (*phenyllupetidine*) (BALLY), 1888, A., 65.
- 4-Phenyl-2:6-dimethylhexahydropyridinedicarboxylic acid (KIRCHNER), 1892, A., 1487.
- Phenyldimethyloctahydrodiquinolymethane, amido- (v. MILLER and PLÖCHL), 1891, A., 1102.
- n*-Phenyldimethylsotriazole (BALTZER and v. PECHMANN), 1891, A., 1115.
- Phenyldimethylsotriazone (v. PECHMANN), 1888, A., 1288.
- 1-Phenyl-3:5-dimethylpyrazole (COMBES), 1889, A., 57.
- 4-bromo- (BALBIANO), 1890, A., 1165.
- 1-Phenyl-3:5-dimethylpyrazole-4-carboxylic acid (KNORR), 1887, A., 678.
- 1-Phenyl-3:5-dimethylpyrazole-1-sulphonic acid (CLAISEN and ROOSEN), 1891, A., 1107.
- 1-Phenyl-2:3-dimethylpyrazolidone (KNORR and DUDEN), 1892, A., 731.
- 1-Phenyl-2:3-dimethylpyrazolone (*antipyrin*; *dimethyloxyquinoline*) (KNORR), 1884, A., 1153, 1378; (KNORR and BULOW), 1884, A., 1382.
- See also Antipyrin.
- 1-Phenyl-3:4-dimethylpyrazolone (KNORR and BLANK), 1884, A., 1380; (KNORR), 1887, A., 601; (PELLIZZARI), 1889, A., 518.
- 1-Phenyl-2:3-dimethylisopyrazolone (LEDERER), 1892, A., 635.
- 1-Phenyl-2:3-dimethylpyrazolone-4-tartronyl-imide and -carbamide (PELLIZZARI), 1889, A., 517.
- Phenyldimethylpyridazine (KNORR), 1885, A., 995.
- Phenyldimethylpyridazinedicarboxylic acid. See 1-Phenylamido-2:5-dimethylpyrroline-3:4-dicarboxylic acid.
- 4-Phenyl-2:6-dimethylpyridine (*phenyllutidine*) (BALLY), 1888, A., 65.
- m*-amido- (LEPETIT), 1887, A., 1053.
- 4-Phenyl-2:6-dimethylpyridine-3-carboxylic acid and its derivatives (HANTZSCH), 1885, A., 397.
- 4-Phenyl-2:6-dimethylpyridine-3:5-dicarboxylic acid (KIRCHNER), 1892, A., 1486.
- m*-amido- (LEPETIT), 1887, A., 1053.
- Phenyl-8-dimethylpyridinedicarboxylic acid (REED), 1887, A., 681.
- 4-Phenyl-1:6-dimethyl-2-pyridone (*methyldiethyl-carbostyryl of phenylpyrroline*) (HANTZSCH), 1885, A., 398.
- Phenyl-2:6-dimethylpyridone (*phenyllutidone*) (PERKIN), 1887, T., 499; (CONRAD and GUTHZEIT), 1887, A., 501.
- Phenyl-2:6-dimethylpyridone-*mono-* and *-di-*carboxylic acids (CONRAD and GUTHZEIT), 1887, A., 500.
- 1-Phenyl-2:5-dimethylpyrroline (KNORR), 1887, A., 275.
- 1-Phenyl-2:5-dimethylpyrroline-3:4-dicarboxylic acid (KNORR), 1885, A., 555.
- 2'-Phenyl-1':4'-dimethylquinolinium hydroxide (*methylfluorolinium hydroxide*) (BERNTINEN and HESS), 1885, A., 559.
- Phenyldimethylquinoxaline (MÜLLER and v. PECHMANN), 1889, A., 1171.
- Phenyldimethylsulphonediamide (BEHREND), 1884, A., 285.
- Phenyldimethyltetrahydronaphthalene (ERDMANN), 1885, A., 528.
- Phenyldimethylthiocarbamide (DIXON), 1892, T., 539.
- s*-Phenyldimethylthiocarbamide (GEBHARDT), 1885, A., 333.
- Phenyldimethylthiohydantoin (MARCKWALD, NEUMARK and STELZNER), 1892, A., 150.
- 1-Phenyl-4-dimethyl-2-thiomethoxyglyoxaline (MARCKWALD, NEUMARK and STELZNER), 1892, A., 153.
- Phenyldimethylurazole (PINNER), 1888, A., 688.
- Phenyldiureinolmethane, *m*-nitro- (BERTONI), 1891, A., 1378.
- Phenyldiphloroglucinolmethane, *m*-nitro- (BERTONI), 1891, A., 1378.
- Phenyldipiperidyl, *p*-nitro-, and *o*:*p*-diniro- (LELLMANN and JUST), 1891, A., 1245.
- Phenyldipropyl-carbamide, -guanidine and -thiocarbamide (FRANCKSEN), 1884, A., 1008.
- Phenyldiquinolylmethane, *p*-nitro- (EINHORN), 1886, A., 720.
- Phenyldiresorcinolmethane, *m*-nitro- (DE VARDA and ZENONI), 1891, A., 1346.
- Phenyldithienyl (RENARD), 1890, A., 1420.
- tribromo-* and *dinitro-* (RENARD), 1890, A., 1420.
- Phenyldithienyldisulphonic acid (RENARD), 1890, A., 1421.

- Phenyldithymolmethane (RUSSANOFF), 1889, A., 1188; 1891, A., 1235.
- Phenyl-*p*-ditolylbiuret (KUHN and HENSCHKE), 1888, A., 471.
- Phenyl-*p*-ditolylcarbamide (HAMMERICH), 1892, A., 1083.
- s*-Phenyldi-*o*-tolylguanidine (HUHN), 1886, A., 1036.
- Phenylditolylmethane, *m*-nitro- (TSCHACHER), 1887, A., 44; 1888, A., 378.
- Phenylditolylphosphine (DÜRKEN), 1888, A., 833.
- Phenyldi-*p*-tolyltriazole (BLADIN), 1890, A., 271.
- Phenyldi-*p*-xylylmethane (ELBS), 1887, A., 941.
- Phenyldixylyl- β -pinacoline (ELBS), 1887, A., 941.
- Phenyldulcitosazone (FISCHER and TAFEL), 1888, A., 358.
- Phenylisodurylcarbinyl benzoate and acetate (ESSNER and GOSSIN), 1885, A., 253.
- Phenylisodurylglycollic acid (ESSNER and GOSSIN), 1885, A., 253.
- o*-Phenylene hydrogen antimonite (CAUSSE), 1892, A., 1078.
- Phenyleneamidinebenzenyl-*o*-carboxylic acid (BISTRZYCKI), 1890, A., 970.
- Phenylene-*p*-amidobenzoylurethane (HAGER), 1885, A., 150.
- Phenylenediamidodiacetic acid (*phenylenediglycine*), hydrochloride of (ZIMMERMANN and KNYRIM), 1883, A., 797.
- Phenylenebenzenyldiamine (AUWERS and v. MEYENBURG), 1891, A., 1378.
- ethyl-derivative and nitrile of (HOWE), 1884, A., 741.
- Phenylenedibromacetylene ketone. See Ketoindene, *di*bromo-.
- Phenylenecarbamide (*amidocarbamidophenol*) (KALCKHOFF), 1883, A., 1110.
- amido- (JENTZSCH), 1889, A., 46.
- Phenylenetrichlorethylene ketone. See Ketohydrindene, *trichloro*-.
- Phenylenetetracloroethylene ketone. See Ketohydrindene, *tetracloro*-.
- Phenylenetrichlorethyleneglycollic acid (ZINCKE), 1888, A., 158.
- Phenylenedichlorodibromethylene ketone. See Ketohydrindene, *di*-chlorodibromo-.
- Phenylenechlorohydroxyacetylene ketone (ZINCKE), 1887, A., 728.
- Phenylene-*p*-diacetamidine (GLOCK), 1886, A., 1290.
- o*-Phenylenediacetic acid (v. BAeyer and PATE), 1884, A., 898.
- Phenylenediacetic acids, *m*- and *p*- (KIPPING), 1888, T., 42.
- Phenylene-*p*-diacetimidooethyl ether (GLOCK), 1888, A., 1290.
- p*-Phenylenediacryl methyl ketone (LÖW), 1886, A., 461.
- o*-Phenylenediacrylic acid (PERKIN), 1886, A., 469; 1888, T., 14.
- p*-Phenylenediacrylic acid (LÖW), 1886, A., 461; (KIPPING), 1888, T., 41.
- o*-Phenylenediallyl/*thio*carbamide (LELLMANN and WURTNER), 1885, A., 977.
- Phenylenediamine (*diamidobenzene*), azo- and diazo-derivatives of (WALLACH and SCHULZE), 1883, A., 583.
- o*-Phenylenediamine, preparation of (LELLMANN), 1884, A., 49.
- action of cyanogen on (BLADIN), 1885, A., 257, 785.
- action of ferric chloride on (WIESINGER), 1884, A., 1322.
- action of formaldehyde on (FISCHER and WRESZINSKI), 1892, A., 1496.
- oxidation of (FISCHER and HEPP), 1889, A., 499; 1890, A., 800.
- detection of, in *m,p*-tolenylenediamine (HINSBERG), 1885, A., 934.
- "*o*-Phenylenediamine, *di*cyno-" (BLADIN), 1885, A., 257, 785.
- m*-Phenylenediamine, preparation of, from resorcinol (SEYEWITZ), 1890, A., 245.
- action of carbon disulphide on (GUCCI), 1885, A., 156; 1886, A., 1023; 1888, A., 588.
- condensation of, with cinnamaldehyde (v. MILLER), 1891, A., 1103.
- physiological action of (DUBOIS and VIGNON), 1889, A., 66.
- preservation of solutions of, and its use as a reagent (DENIGES), 1892, A., 1124.
- dinitro*- [m.p. 250°] (BARR), 1888, A., 823.
- [m.p. 300°] (NIEZKI and HAGENBACH), 1887, A., 477.
- trinitro*- (NOLTING and COLLIN), 1881, A., 1001; (BARR), 1888, A., 823.
- p*-Phenylenediamine, preparation of (LELLMANN), 1884, A., 49.
- nitration of (LADENBURG), 1884, A., 738.
- oxidation of (v. BANDROWSKI), 1889, A., 973.
- physiological action of (DUBOIS and VIGNON), 1889, A., 66.
- salts, heat of formation of (VIGNON), 1888, A., 1012.

- p*-Phenylenediamine, dichloro-, hydrochloride (MOHLAR), 1886, A., 941.
- Phenylenediamines and their derivatives (LELLMANN), 1883, A., 321.
- thermochemistry of (VIGON), 1889, A., 1099.
- condensation of, with acetaldehyde (SCHIFF and VANNI), 1890, A., 139.
- condensation of, with butaldehydes (LASSAR-COHN), 1890, A., 135.
- action of *p*-diazobenzenesulphonic acids on (GRIESS), 1883, A., 183.
- action of ethylic chloracetate on (ZIMMERMANN and KNYRIN), 1883, A., 797.
- mono-additive products of phenylic cyanate and (LELLMANN and WÜRTNER), 1885, A., 975.
- benzyl derivatives of (MELMOLA and COSTE), 1889, T., 590; P., 116.
- cyanic acid derivatives of (LELLMANN), 1883, A., 795.
- p*-Phenylenediaminedibenzylidene-sulphonic acid, sodium salt of (KAFKA), 1891, A., 721.
- o*-Phenylenediaminesulphonic acid (NIETZKI and LERCH), 1889, A., 144.
- o*-Phenylenediamine-*p*-sulphonic acid (LERCH), 1889, A., 851.
- 2:5-Phenylenediaminethiosulphonic acid (BERNTSEN), 1889, A., 777.
- o*-Phenylenediazosulphide (JACOBSON), 1889, A., 135.
- Phenylenediazosulphidecarboxylic acid (PFITZINGER and GATTERMANN), 1889, A., 868.
- Phenylenedibenzylidiacetic acid (MEYER and OELKERS), 1888, A., 704.
- Phenylenedicarbamides, three isomeric (LELLMANN), 1883, A., 798.
- Phenylenediethyldisulphone (OTTO and CASANOVA), 1888, A., 255.
- Phenylenediglycoccine. See Phenylene-*d*/amidodiacetic acid.
- p*-Phenylenedimethylaminediethyl-methylphosphonium iodide (MICHAELIS and SCHENK), 1891, A., 436.
- p*-Phenylenedimethylaminediethyl-phosphine and its oxide and sulphide (MICHAELIS and SCHENK), 1891, A., 436.
- p*-Phenylenedimethylaminedimethyl-phosphine and its oxide and sulphide (MICHAELIS and SCHENK), 1891, A., 435.
- p*-Phenylenedimethylaminediphenyl-methylphosphonium iodide and *p*-phenylenedimethylaminediphenyl-phosphine oxide and sulphide (MICHAELIS and SCHENK), 1891, A., 436.
- Phenylenedimethylaminephenyl-methylphosphine oxide and phenylenedimethylamine-triethyl- and -trimethyl-phosphonium iodides (MICHAELIS and SCHENK), 1891, A., 435.
- m*-Phenylenedimethyldinitramine, trinitro- (VAN ROMBURGH), 1888, A., 1079, 1185.
- o*-Phenylenedipropionic acid (PERKIN), 1886, A., 469; 1888, T., 18.
- Phenylenedipropionic acids, *m*- and *p*- (KIPPING), 1888, T., 32, 39.
- Phenylene-ethenylamidine, nitro- (*nitr-ethenyl-o-phenylenediamine*) (HEIM), 1888, A., 1097.
- Phenylene-ethenylethylamidine (*ethenylethyl-o-phenylenediamine*) (HEMPEL), 1889, A., 600; 1890, A., 612.
- Phenylene-ethyl-*o*-diamines (*amido-ethylaniline*) (HEMPEL), 1889, A., 600; 1890, A., 612.
- Phenylene-ethyl-*m*-diamine (NOLTING and STRICKER), 1886, A., 545.
- Phenylene-ethyl-*p*-diamine (SCHWEITZER), 1886, A., 347; (FISCHER and HEPP), 1887, A., 244.
- o*-Phenylene-ethylenediamine and its derivatives (MERZ and RIS), 1887, A., 722; (RIS), 1888, A., 468.
- Phenylene-ethylenedisulphone (OTTO and CASANOVA), 1888, A., 256.
- Phenylenehydroxylamine, *d*nitro- (WILLGERODT), 1892, A., 594.
- Phenylenedimidobutyric acid, synthesis of (KNORR), 1884, A., 1198.
- o*-Phenylenemethyldiamine (FISCHER), 1892, A., 1475.
- m*-Phenylenemethyldiamine (NOLTING and STRICKER), 1886, A., 544.
- p*-Phenylenemethyldiamine (BERNTSEN and GOSKE), 1887, A., 667.
- Phenylenemethylethenylamidine (FISCHER), 1892, A., 1475.
- β -Phenylenenaphthylenemethane oxide (PHOMINA), 1890, A., 901.
- Phenylene- β -naphthylethenyldiamine, nitro- (HEIM), 1888, A., 488.
- m*-Phenyleneoxytrichlorethylene (MICHAEL), 1886, A., 614.
- Phenylenepropyldiamine, action of bromine on (SMITH), 1885, A., 524.
- Phenylenepropyldiamine (WACKER), 1888, A., 466.
- Phenylenepropylenediamine (RIS), 1888, A., 468.
- Phenylenepyridineketonedicarboxylic acids, α - and β - (DOEBNER and PETERS), 1890, A., 1008.
- formation of, by the oxidation of naphthaquinoline derivatives (DOEBNER and PETERS), 1890, A., 1007.

- Phenylenequinaldine.** See Phenyl-2'-methylquinoline.
- m*-Phenylenesuccinamic acid** (GRIESS), 1885, A., 1220.
- Phenylene-tetramethyl-**. See Tetramethylphenylene-
- o*-Phenylenethiocarbamide** (LELLMANN), 1883, A., 324; 1884, A., 49.
- Phenylenethiocarbamides** (LELLMANN), 1883, A., 185; (BILLETTER and STEINER), 1887, A., 366.
- Phenylenedithiocarbamides and their derivatives** (LELLMANN), 1883, A., 324; 1884, A., 49.
- o*-Phenylene-*p*-tolylguanidine** (KELLER), 1891, A., 1470.
- p*-Phenylenurethane** (GATTERMANN and WRAMPPELMEYER), 1886, A., 50.
- Phenylenic carbamates, *o*-, *m*-, and *p*-** (GATTERMANN), 1888, A., 575.
- Phenylenic cyanates, *m*- and *p*-** (GATTERMANN and WRAMPPELMEYER), 1886, A., 50.
- Phenylenic oxide** (VAUBEL), 1892, A., 1187.
- p*-Phenylenic disulphide** (LEUCKART), 1890, A., 605.
- m*-Phenylenic *o*-tolylcarbamate** (GATTERMANN and CANTZLER), 1892, A., 832.
- Phenylethenylidiamidoacetone** (RÜGHEIMER and MISCHER), 1892, A., 952.
- Phenylethenylamidoxime, and its derivatives** (KNUDSEN), 1885, A., 897, 1218.
- p*-cyano-** (ROSENTHAL), 1890, A., 147.
- Phenylethenylamidoximebenzenesulphone** (PINNOW), 1892, A., 461.
- Phenylethenylazidine hydrochloride** (PINNER), 1884, A., 1323.
- Phenylethenylazo-**. See Azo.
- Phenylethenylphenyluramidoxime** (KNUDSEN), 1885, A., 898.
- ethyl ether** (KNUDSEN), 1885, A., 1218.
- Phenylethoxynaphthalene, diamido-** (WEINBERG), 1888, A., 286.
- Phenylethylacetanilide, β -bromo-** (ELFELDT), 1892, A., 214.
- Phenylethylacetic acid** (NEURE), 1889, A., 597.
- Phenylethylallylthiocarbamide** (GEBHARDT), 1885, A., 383.
- Phenylethylamidoacetic acid** (HEUMANN), 1891, A., 837.
- Phenylethylamidobenzeneazophenylethylaniline** (LIPPMANN and FLEISSNER), 1884, A., 180.
- α -Phenylethylamine** (TAFEL), 1886, A., 940.
- derivatives** (TAFEL), 1889, A., 976.
- ω -Phenylethylamine** (ERLENMEYER and LIPP), 1883, A., 993.
- preparation of** (HOOGWERFF and VAN DORP), 1887, A., 245.
- oxalate** (HOOGWERFF and VAN DORP), 1888, A., 1196.
- as*-Phenylethylcarbamide** (GEBHARDT), 1884, A., 1321.
- Phenylethylcarbinol** (ERRERA), 1887, A., 35.
- Phenylethylene.** See Styrene.
- Phenylethylene-carbamide and -thiocarbamide** (NEWMAN), 1891, A., 1206.
- Phenylethylenediamine** (GABRIEL), 1889, A., 1166.
- Phenylethyl-hydantoin and - ψ -hydantoin** (PINNER), 1888, A., 1103.
- Phenylethylhydrazine acetoacetate, action of hydrocyanic acid on** (v. MILLER and PLÖCHL), 1892, A., 1196.
- o*-amido-** (HEMPEL), 1890, A., 612.
- Phenylethylhydrazine-glyoxal and -glyoxylic acid** (ELBERS), 1885, A., 535.
- Phenylethylhydrazone, thionyl-** (MICHAELIS), 1889, A., 1163.
- Phenylethyl alcohol, oximido-** (MEYER and NAGEL), 1883, A., 1076.
- Phenylethyl salicylate, *o*-nitro-** (*salicyl-ethyl-phenol ether*) (WAGNER), 1884, A., 436.
- Phenylethylidene cyanhydrin** (ERLENMEYER and LIPP), 1883, A., 992.
- Phenylethylidenebenzenylamidoxime** (ZIMMER), 1890, A., 253.
- Phenylethylketone-*o*-carboxylic acid** (*benzoyl-ethyl-*o*-carboxylic acid*) (ROSER), 1886, A., 243.
- Phenylethylactic acid, behaviour of** (SLOCUM), 1885, A., 662.
- β -Phenyl- α -ethylactic acid** (PERKIN and STENHOUSE), 1891, P., 43.
- Phenylethylmalonamide** (FREUND and GOLDSMITH), 1888, A., 676.
- Phenylethyl nitrosamine, *p*-nitro-** (MELDOLA and STREATFIELD), 1886, T., 631.
- 5-Phenyl-1-ethyloxy- ψ -thiazole** (HUBACHER), 1891, A., 222.
- Phenylethylphenol.** See Hydroxydiphenylethane.
- Phenylethylphenylthiocarbamide** (MAINZER), 1883, A., 1106.
- Phenylethylphthalamic acid and its salts** (PIUTTI), 1884, A., 449.
- Phenylethylpropionic acid, preparation and properties of** (ANSCHÜTZ and BERNS), 1891, A., 914.

- 1:5-Phenylethylpyrazole (CLAISEN and STYLOS), 1888, A., 671.
- Phenylethylsemithiocarbazide (DIXON), 1889, T., 302.
- Phenylethylsulphone (OTTO), 1885, A., 537.
- α -Phenyl- μ -ethylthiazole (HUBACHER), 1891, A., 221.
- Phenylethylthiobiuret (TURSINI), 1884, A., 1141.
- Phenylethylthiocarbamide (NEUBERT), 1886, A., 873.
- $\alpha\beta$ -Phenylethylthiocarbamide (GEBHARDT), 1884, A., 1321.
- Phenylethylthiocarbamine chloride and oxide (BILLETTER), 1887, A., 822.
- Phenylethylthiocarbimide (NEUBERT), 1886, A., 873.
- Phenylethylthiohydantoin hydrochloride (NEUBERT), 1886, A., 873.
- 2-Phenyl-4-ethylthiophen (DITTRICH and PAAL), 1889, A., 258.
- Phenylethyltriazoledicarboxylic acid (BLADIN), 1892, A., 637.
- Phenylethylurethane, nitro- (STEDTMANN), 1883, A., 802.
- Phenylfenchylamine (WALLACH), 1891, A., 1088.
- Phenylformamidine, cyano- (COMSTOCK and WHEELER), 1892, A., 707.
- Phenylfurazan (RUSSANOFF), 1892, A., 322.
- α -Phenylfurfuracrylonitrile (FROST), 1889, A., 598.
- p -amido-, and p -nitro- (FREUND and IMMERWAHR), 1890, A., 1408.
- Phenylfurfuryl-carbamide and -thiocarbamide (DEUTZMANN), 1892, A., 43.
- Phenylgalactosazone (SCHEIDLER), 1884, A., 1287; (FISCHER), 1885, A., 54.
- Phenylglucosazone (FISCHER), 1885, A., 53; 1886, A., 933.
- Phenylglucosazonecarboxylic acid (RODER), 1887, A., 150.
- Phenylglutaric acid (MICHAEL), 1887, A., 672.
- β -Phenylglyceric acid ($\alpha\beta$ -dihydroxy-phenylpropionic acid) (LIPP), 1883, A., 994; (FITTIG and RUER), 1892, A., 986.
- Phenylglycerol (dihydroxyphenoxypropene) (LINDEMANN), 1891, A., 1198.
- Phenylglycerosazone (FISCHER and TAFEL), 1887, A., 651.
- Phenylglycidic acid (β -phenylhydroxyacrylic acid) (PLÜCHL), 1884, A., 604; 1887, A., 254; (ERLENMEYER), 1887, A., 142, 1046; (WISLICENUS), 1887, A., 587.
- Phenylglycidic acid (β -phenylhydroxyacrylic acid), synthesis of (ERLENMEYER), 1889, A., 990.
- sodium salt of, behaviour of ammonia and organic bases with (ERLENMEYER), 1889, A., 988.
- o - and p -nitro- (LIPP), 1887, A., 142.
- Phenylglycidic acids, optically active (ERLENMEYER), 1891, A., 1482.
- o -Phenylglycincarboxylic acid. See Carboxyanilidoacetic acid.
- Phenylglycinmethylanilide. See Phenylamidoacetomethylanilide.
- Phenylglycinphenylamidoacetic acid. See Anilidoacetanilidoacetic acid.
- Phenylglycocine. See Anilidoacetic acid.
- "Phenylglycocinesulphonic acid" (ZEHENTER), 1885, A., 55, 1235.
- Phenylglycollic acid. See Mandelic acid.
- Phenylglyeunonic acid (KÜTZ), 1885, A., 233; 1890, A., 1286.
- Phenylglyoxal (v. PECHMANN), 1888, A., 146; (MÜLLER and v. PECHMANN), 1890, A., 51.
- hydrate (v. PECHMANN), 1888, A., 146.
- 1-Phenylglyoxaline (WOHL and MARCKWALD), 1892, A., 624.
- 2-Phenylglyoxaline (MAQUENNE), 1891, A., 331.
- 2-Phenylglyoxalinedicarboxylic acid (MAQUENNE), 1890, A., 1440.
- Phenylglyoxalmethylphenylosazone (CULMANN), 1888, A., 1287.
- 1-Phenylglyoxalylmercaptide (WOHL and MARCKWALD), 1892, A., 624.
- Phenylglyoxime (SCHRAMM), 1884, A., 52; (STRASSMANN), 1889, A., 610.
- peroxide (SCHOLL), 1891, A., 316.
- Phenylglyoximes (RUSSANOFF), 1892, A., 321.
- Phenyl-*amphi*- and -*syn*-glyoximecarboxylic acids (NUSSBERGER), 1892, A., 1177.
- Phenylglyoxylic acid, formation of, from benzoic cyanide (v. BUCHKA), 1887, A., 487.
- preparation of, from acetophenone (v. BUCHKA and IRNH), 1887, A., 483.
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- o*-nitro-**, hydrazone, isomeric form of (KRAUSE), 1891, A., 302.
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- Phenylhexamethylene**, derivatives of (KIPPING and PERKIN), 1889, P., 161; 1890, T., 304.
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- s*-Phenyl- ψ -hexylcarbamide** (FREUND and HERRMANN), 1890, A., 174.
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- Phenylisohexylene** and its dihydromide (SCHRAMM), 1883, A., 977.
- s*-Phenyl- ψ -hexylthiocarbamide** (FREUND and HERRMANN), 1890, A., 474.
- Phenylhexyltriazolecarboxylic acid** (BLADIN), 1892, A., 597.
- Phenylhippuric acid** (KOSSEL), 1892, A., 468.
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- Phenylhomoparaconic acid**, and its salts (PENFIELD), 1883, A., 473.
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- α -Phenylhydantoic acid** (PINNER), 1888, A., 1103.
- α -Phenylhydantoic amide** (PINNER and SPILKER), 1889, A., 706.
- α -Phenylhydantoin** (PINNER), 1888, A., 1102.
- γ -Phenylhydantoin** (GUARENCHI), 1892, A., 828.
- ψ -Phenylhydantoin** (PINNER), 1888, A., 1102.
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- α -Phenylhydrazidobutyramide** (v. MILLER and PLOCH), 1892, A., 1192.
- α -Phenylhydrazidobutyric acid** (JAPP and KLINGEMANN), 1888, T., 538.
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- α -Phenylhydrazidoisobutyric anhydride** (REISSERT), 1884, A., 1153.
- α -Phenylhydrazidoisobutyrimide and isobutyronitrile** (REISSERT), 1884, A., 1152.
- Phenylhydrazido-*o*- and -*p*-cresotoils** (NOLTING and WERNER), 1891, A., 212.
- ψ -Phenylhydrazido- α -hydroxybutyric acid**, and its derivatives (REISSERT and KAYSER), 1890, A., 155.
- ψ -Phenylhydrazidomandelic acid** (REISSERT and KAYSER), 1890, A., 156.
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- Phenylhydrazidophenylbiazolone** (FREUND and KUHN), 1890, A., 1441.
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- α -Phenylhydrazidopropionic acid** (FISCHER and JOURDAN), 1884, A., 53; (v. MILLER and PLOCH), 1892, A., 1196; (REISSERT), 1892, A., 1456.
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- Phenylhydrazine** salts, reactions of (CROSS and BEVAN), 1884, A., 897.
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- Phenylhydrazinesulphonic acid, *di*-bromo-** (LIMPRICHT), 1889, A., 398.
- Phenylhydrazine-*o*-sulphonic acid, 5-amido-, and 5-nitro-** (LIMPRICHT), 1885, A., 1216.

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- Phenylimidobenzoin, bromo- (VOIGT) 1886, A., 888.
- Phenylimidobromacetic acid (KNORR and ANTRICK), 1885, A., 273.
- Phenyl- β -imidobutyric acid, synthesis of (KNORR), 1884, A., 1198.
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- Phenylimidodiphenylguanidine (MARCKWALDT), 1889, A., 393.
- Phenylimidoformic chloride hydrochloride (NEF), 1892, A., 1440.
- Phenylimidoguanidine (PELLIZZARI), 1891, A., 1471.
- action of ethylic acetoacetate on (PELLIZZARI), 1891, A., 1472.
- Phenylimidomethylpropionylacetone nitrile (BOUVEAULT), 1891, A., 52.
- Phenylimidomucrohydroxy-bromic and -chloric acids (HILL and PALMER), 1888, A., 452.
- Phenylimidophenyl (SEIFERT), 1890, A., 490.
- Phenylimidopropionic acid (*anilpyruvic acid*) (BÖTTINGER), 1883, A., 1128; 1891, A., 1054.
- condensation of (BÖTTINGER), 1892, A., 54.
- bromo-derivative of (BÖTTINGER), 1883, A., 1128.
- Phenylimidopropionic chloride (NEF), 1892, A., 1440.
- Phenylimidopropionitrile (*benzoylmethyl cyanide, imido*) (HOLZWART), 1889, A., 653.
- α -Phenylimidopropionitrile (ERLENMEYER and LIPP), 1883, A., 992.
- Phenylimidopyrrolylpyruvic acid and anhydride (ANGELI), 1890, A., 1243.
- μ -Phenylimidothiazoline (NAF), 1891, A., 1517.
- 2'-Phenylindazine (PAAL), 1891, A., 723.
- p*-chloro- (PAAL), 1891, A., 724.
- 1'-Phenylindazine-3'-carboxylic acid, nitro-, action of stannous chloride on (SCHULHOFER), 1891, A., 1231.
- 1'-Phenyl- ψ -indazine-3'-carboxylic acid, nitro- (MEYER), 1889, A., 517.

- 1'-Phenylindole (PFULF), 1887, A., 956.
- 2'-Phenylindole and its derivatives (ETARD, 1883, A., 179; (PICTET), 1886, A., 711; (FISCHER and SCHMIDT), 1888, A., 698; (BISCHLER), 1892, A., 1465.
- amido-, and nitroso- (FISCHER and SCHMIDT), 1888, A., 698.
- chloro- (BISCHLER), 1892, A., 1466.
- See also Methylphenanthridine.
- 3'-Phenylindole (FISCHER and SCHMIDT), 1888, A., 958.
- reactions of (INCE), 1890, A., 57.
- Phenylindoles, formation of, by isomeric change (INCE), 1889, P., 90.
- 1'-Phenylindole-3'-carboxylic acid, synthesis of (FISCHER and HESS), 1884, A., 1181.
- Phenylinduline (FISCHER and HEPP), 1891, A., 1046.
- action of acetic acid on (FISCHER and HEPP), 1892, A., 341.
- amido- (FISCHER and HEPP), 1891, A., 1046.
- action of sulphuric acid on (FISCHER and HEPP), 1892, A., 341.
- Phenyl- ψ -isatin (PFULF), 1887, A., 956.
- Phenylitaconic acid (FITTIG and LEONI), 1890, A., 894; (FITTIG and RÖDERS), 1890, A., 895.
- Phenylitamalic acid. See Hydroxyphenylpyrotartaric acid.
- Phenylum-. See Phenylammonium.
- Phenylizinedihydroxytartaric acid (ZIEGLER and LOCHER), 1887, A., 578.
- m*-nitro- (BISCHLER and BRODSKY), 1890, A., 151.
- 3'-Phenyl-2'-ketodihydroquinazoline (SÖDERBAUM and WIDMAN), 1890, A., 178.
- 3'-Phenyl-4'-ketodihydroquinazoline (PAAL and BUSCH), 1890, A., 72; (PAAL and KRECKE), 1892, A., 81.
- 3'-Phenyl-4'-ketodihydroquinazoline-2'-carboxylic acid (PAAL and KRECKE), 1892, A., 81.
- 3'-Phenyl-4' ketohydrazodihydroquinazoline (PAAL and BUSCH), 1890, A., 72.
- Phenylketohydroxybutyric acid (FISCHER and STEWART), 1892, A., 1448.
- Phenylketohydroxydimethylanilidotetrahydropyridinecarboxylic lactone, real nature of (ANSCHUTZ), 1891, A., 741.
- Phenylketopentene. See Phenylmethylfurfuran.
- 1-Phenylketopyrazolone 4-phenylhydrazone (KNORR), 1888, A., 724.
- 1-Phenylketopyrazolone-3-carboxylic acid 4-phenylhydrazone (KNORR), 1888, A., 724.
- 3'-Phenyl-2'-ketotetrahydroquinazoline and its derivatives (SÖDERBAUM and WIDMAN), 1889, A., 973; (NIETZKI), 1890, A., 178; (PAAL and BODEWIG), 1891, A., 944; (BUSCH), 1892, A., 1495.
- Phenyl- α -lactic acid, β -amido- (ERLENMEYER), 1889, A., 988.
- p*-amido- (ERLENMEYER and LIPP), 1883, A., 994.
- nitro-, nitrate of (ERLENMEYER and LIPP), 1883, A., 993.
- Phenyl- β -lactic acid. See β -Hydroxyphenylpropionic acid.
- Phenyl- β -lactic methyl ketone. See β -Hydroxyphenylpropionyl methyl ketone.
- Phenylactimide (ERLENMEYER and LIPP), 1883, A., 993.
- Phenyl- α -lactonitrile (ERLENMEYER and LIPP), 1883, A., 992.
- Phenylactosazone (FISCHER), 1885, A., 54; 1887, A., 567.
- Phenyl- β -lacturamic acid (HOOGWERFF and VAN DORP), 1891, A., 197.
- Phenyllepidineamine. See 2'-Anilido-4'-methylquinoline.
- α -Phenyllevulinic acid (FITTIG and STERN), 1892, A., 988.
- γ -Phenylupetidine. See 4-Phenyl-2:6-dimethylhexahydropyridine.
- Phenyllutidine. See 4-Phenyl-2:6-dimethylpyridine.
- Phenyllutidone. See Phenyl-2:6-dimethylpyridone.
- Phenylmaleic acid and anhydride (ALEXANDER), 1890, A., 1186.
- Phenylmalic acids, α - and β - (α - and β -hydroxy- α -phenylsuccinic acids) (ALEXANDER), 1890, A., 1135.
- Phenylmalonamic acid. See Malonanilic acid.
- Phenylmalonamide (FREUND), 1884, A., 728.
- Phenylmaltosazone (FISCHER), 1885, A., 54; 1887, A., 567.
- Phenylmannosazone (FISCHER and HIRSCHBERGER), 1888, A., 984.
- Phenylmelamine (KLASON), 1886, A., 523.
- Phenylmelamines and their derivatives: normal-, iso-, and asymmetric-compounds (V. HOFMANN), 1886, A., 233.
- Phenylmellilotic acid, synthesis of (SARDO), 1884, A., 176.
- Phenylmercaptan-benzoylformic acid and the action of hydrogen chloride on (BAUMANN), 1885, A., 750.

- Phenylmercaptomethylmercaptan, amido- (JACOBSON and FRANKENBACHER), 1891, A., 1048.
- Phenylmesitylenylcarbinol (*phenyltrimethylphenylcarbinol*) and its derivatives (LOVINE), 1886, A., 542.
- Phenylmethaneazobenzene, *o*-nitro- (PAAL and BODEWIG), 1892, A., 1456.
- Phenylmethenylazidine (FISCHER), 1889, A., 1164.
- Phenylmethenylhydroxyamidine (*hydrazophenylformamidine*) (COMSTOCK and CLAPP), 1892, A., 708.
- Phenylmethoxytolylethanes (KOENIGS and CARL), 1892, A., 446.
- Phenylmethylacridine (BONNA), 1887, A., 928.
ethoxide and hydroxide (DECKER), 1892, A., 881.
- Phenylmethylacrylic acid. See Phenylcrotonic acid.
- Phenylmethylallylpyrroline (LEDERER and PAAL), 1886, A., 75.
- Phenylmethylallylpyrrolinecarboxylic acid, and its ethylic salt (LEDERER and PAAL), 1886, A., 75.
- Phenylmethylamidobenzeneazotri-bromobenzene (SILBERSTEIN), 1883, A., 662.
- Phenylmethylamidobenzeneazodiphenylmethylamine (LIPPMANN and FLEISSNER), 1884, A., 180.
- Phenylmethylamidobenzenephosphinic acid and chloride (MICHAELIS and SCHENK), 1891, A., 437.
- α -Phenyl- μ -methylamidothiazole (TRAUMANN), 1889, A., 415.
- Phenylmethylantracene (v. HEMI-LIAN), 1884, A., 322.
- Phenylmethylantranol (v. HEMI-LIAN), 1884, A., 322; 1887, A., 266.
- Phenylmethylbiazoline (FREUND and KUH), 1890, A., 1442.
- Phenyl- α -methyl- β -bromacrylic acid (KORNER), 1889, A., 372.
- α -Phenylmethylcarbamide (GEBHARDT), 1884, A., 1321.
- Phenylmethylchlorobiazolone (FREUND and KUH), 1890, A., 1441.
- Phenylmethylchloroformamide, compounds from (LELLMANN and BENZ), 1891, A., 1214.
- 2'-Phenyl-1- and -3-methyl-4'-cinchonic acids (DOEBNER and GIESEKE), 1888, A., 300.
- Phenyl- α - and - β -methylisocrotonic acids (*phenylpentenoic acid*) (FITZIG and LIEBMANN), 1890, A., 775.
- Phenylmethylcyantriazole (BLADIN), 1887, A., 138.
- 2-Phenyl-6-methyl-*n*-diazine, amido-, and *N*-amido- (PINNER), 1887, A., 1054.
- Phenylmethyldihydro- β -naphthatriazine, and methiodide of (GOLD-SCHMIDT and POLTZER), 1891, A., 840, 841.
- 3'-Phenyl-2'-methyldihydroquinazoline (PAAL and KRECKE), 1890, A., 1443; 1892, A., 81.
- Phenylmethyldihydroxyglutaric acid (*dihydroxyphenylmethylglutaric acid*) (CARLSON), 1892, A., 1471.
- Phenylmethyldiphenylazimethylene (CURTIUS and PFLEGER), 1892, A., 457.
- Phenylmethylenehydrazine (CURTIUS and PFLEGER), 1892, A., 456.
- Phenylmethylethylalkaline. See Hydroxyethylmethylamine.
- Phenylmethylethylenediamine (NEWMAN), 1891, A., 1208.
- n*-Phenylmethylethylsotriazole (BALTZER and v. PUCHMANN), 1891, A., 1116.
- 1-Phenyl-4-methyl-3-ethylpyrazole (CLAISEN and MEYEROWITZ), 1890, A., 358.
5-amido- (BOUVEAULT), 1891, A., 52.
- 1-Phenyl-4-methyl-5-ethylpyrazole platinocloride (BALBIANO), 1892, A., 885.
- 1-Phenyl-3-methyl-4-ethylpyrazolone (KNORR and BLANK), 1884, A., 1380.
- Phenylmethylethylthiocarbamide (GEBHARDT), 1885, A., 383; (BILLETTER), 1887, A., 823.
- Phenylmethylfumaramic acid (PIUTTI), 1886, A., 792.
- Phenylmethylfumaride (PIUTTI), 1886, A., 621.
- Phenylmethylfurfuran and its derivatives (PAAL), 1885, A., 248; (SCHLOESSER), 1889, A., 595.
- Phenylmethylfurfurancarboxylic acid (PAAL), 1885, A., 249.
relationship of, to phenuvic acid (COLEFAX), 1891, T., 190.
- Phenylmethylfurfurandicarboxylic acid (*phenylthronic acid*) (FITZIG and SCHLOESSER), 1888, A., 1089; (SCHLOESSER), 1889, A., 595.
- Phenylmethylglucosazone (FISCHER), 1889, A., 484.
- Phenylmethylglycoluric acid. See Phenylmethylumamidobenzoic acid.
- 2:5-Phenylmethylglyoxaline (LEWY), 1888, A., 1102.
- Phenylmethylhydantoic acid (KÜHN), 1885, A., 261.
- Phenylmethylhydantoin (PINNER), 1888, A., 1103.

- Phenylmethylhydrazine** and its salts (ERLENMEYER), 1883, A., 1103; (TAFEL), 1885, A., 1061; (FISCHER), 1887, A., 138. derivatives of (STANER), 1890, A., 1259. *o*-amido- (HEMPER), 1890, A., 613. thionyl- (MICHAELIS and RUTH), 1892, A., 1324.
- Phenylmethylhydrazinephenylglyoxylic acid** (ELBERS), 1885, A., 535.
- Phenylmethylhydrazinesulphonic acid** (PFULF), 1887, A., 934.
- 1:5-Phenylmethylhydroisopyrazolone** (LEDERER), 1892, A., 635.
- 2'-Phenyl-3'-methylhydroquinoline, *m*-amido-** (V. MILLER and KINKELIN), 1886, A., 561.
- Phenylmethylhydroxyanthranol** (V. HEMILIAN), 1887, A., 267.
- Phenylmethylimidobiazole** (FREUND and KUH), 1890, A., 1442.
- α -Phenylmethyl- μ -imidothiazoline** (TRAUMANN), 1889, A., 415.
- 2'-Phenyl-1-methylindole** (BISCHLER), 1892, A., 1465.
- 2'-Phenyl-3-methylindole** (BISCHLER), 1892, A., 1466.
- 2'-Phenyl-1'-methylindole** (DEGEN), 1887, A., 149; (STAEDEL), 1888, A., 1093.
- 3'-Phenyl-1'-methylindole** (INCE), 1890, A., 57.
- 3'-Phenyl-2'-methylindole** (TRENKLER), 1889, A., 260.
- 3':2'-Phenylmethyl-4'-ketodihydroquinazoline** (PAAL and KRECKE), 1892, A., 81.
- 1-Phenyl-3-methylketopyrazolone-4-hydrazone** (KNORR), 1888, A., 721.
- Phenylmethylketoxime-*o*-carboxylic acid, anhydride of** (GABRIEL), 1883, A., 1128.
- β -Phenyl- α -methylactic acid.** See Hydroxy- β -phenyl- α -methylpropionic acid.
- Phenylmethylmethylenebisthioglycollic acid** (BONGARTZ), 1888, A., 479.
- 1-Phenyl-3-methyl-4-methylenehydrazine** (CURTIUS and PFUG), 1892, A., 457.
- 1-Phenyl-3-methyl-4-methylenepyr-azolone** (PELLIZZARI), 1889, A., 518.
- Phenyl-*ald*-methylaphthatriazine, *ac-p*-nitro-** (MELDOLA and FORSTER), 1891, T., 697. reduction of (MELDOLA and FORSTER), 1891, T., 712.
- Phenylmethyl- β -naphthylamine, thio-** (KYM), 1890, A., 1307.
- Phenylmethylnitramine, 2:3:4:6-tetra-**nitro-, and its conversion into *m*-phenylenediamine derivatives (VAN ROMBURGH), 1889, A., 1154.
- Phenylmethylnitrosamine**, constitution of (ERLENMEYER), 1883, A., 1103. *p*-nitro- (FISCHER and HEPP), 1887, A., 244; (MELDOLA and SALMON), 1888, T., 775. *p*-nitroso- (FISCHER and HEPP), 1887, A., 244. See also Methylaniline, nitroso-.
- m*-Phenylmethylsotriazole** and its derivatives (JONAS and V. PECHMANN), 1891, A., 1111.
- m*-Phenylmethylsotriazolecarboxylic acid** (BALTZER and V. PECHMANN), 1891, A., 1115.
- m*-Phenylmethylsotriazolesulphonic acid** (JONAS and V. PECHMANN), 1891, A., 1112.
- Phenylmethylsotriazole** (V. PECHMANN), 1888, A., 1289.
- Phenylmethylloxazole** (LEWY), 1888, A., 593, 1101.
- Phenylmethyl-*iso*-oxazole** (HANTZSCH), 1891, A., 741.
- Phenylmethylloxanthranol** (V. HEMILIAN), 1884, A., 322.
- $\mu\beta$ -Phenylmethylloxazoline** (GABRIEL and HEYMANN), 1890, A., 1267. *m*-nitro- (ELFELDT), 1892, A., 214.
- Phenylmethylparaconic acids, α - and β -** (FITTIG and LIERMANN), 1890, A., 775.
- Phenyl- α -methylpiperidine, *o-p-d*nitro-** (LELLMANN and JUNT), 1891, A., 1245.
- Phenyl- β -methylpiperidine, μ -nitro-, and *o-p-d*nitro-** (LELLMANN and BUTTNER), 1890, A., 1003.
- Phenylmethylpropionic acid.** See Methylhydrocinnamic acid and Tulylpropionic acid.
- Phenylmethylpropylalkine.** See Hydroxypropylmethylaniline.
- 1-Phenyl-3-methyl-4-*isopropylene*pyrazolone** (KNORR), 1887, A., 602.
- Phenylmethylpropylene- ψ -thiocarbamide** (PRAGER), 1890, A., 159.
- 1-Phenyl-3-methylpyrazole** (CLAISEN and STYLOS), 1888, A., 671; (ACH), 1890, A., 71; (CLAISEN and ROOSEN), 1891, A., 1106.
- 1-Phenyl-5-methylpyrazole** (KNORR and LAUBMANN), 1889, A., 410; (CLAISEN and ROOSEN), 1891, A., 1106.
- 1-Phenyl-3-methylpyrazole-5-carboxylic acid** (ACH), 1890, A., 71.
- 1-Phenyl-5-methylpyrazole-3-carboxylic acid** (CLAISEN and STYLOS), 1888, A., 676; (CLAISEN and ROOSEN), 1891, A., 1107.

- 1-Phenyl-5-methylpyrazole-3:4-dicarboxylic acid (KNORR and LAUBMANN), 1888, A., 410.
- 1-Phenyl-3-methylpyrazolidone (KNORR and DUDEN), 1892, A., 731.
- 1-Phenyl-3-methylpyrazolone and its derivatives (KNORR), 1884, A., 1103; 1887, A., 601; (MOLLENHOFF), 1892, A., 1245.
- action of sulphur dichloride on (SPRAGUE), 1891, T., 334.
- 4-mono- and di-bromo- (KNORR and DUDEN), 1892, A., 731.
- 4-dibromo-p-bromo- (KNORR and DUDEN), 1892, A., 731; (MOLLENHOFF), 1892, A., 1246.
- 4-nitro- (KNORR), 1884, A., 302, 1153, 1378; 1887, A., 602; (KNORR and DUDEN), 1892, A., 731.
- 4-oxime (KNORR), 1887, A., 602.
- 4-thio- (4-thiobis-1-phenyl-3-methylpyrazolone) (v. BUCHKA and SPRAGUE), 1890, A., 796; (MICHAELIS), 1890, A., 1269; (SPRAGUE), 1891, T., 332, 335.
- Phenylmethylisopyrazolones, 1:2- and 1:5- (LEDERER), 1892, A., 635.
- 1-Phenyl-3-methylpyrazolone-4-acetic acid (KNORR and BLANK), 1884, A., 1880.
- Phenylmethylpyrazoloneazobenzene. See under Azo.
- 1-Phenyl-3-methylpyrazolone-4-carbinol and -4-malonylcarbamide (PELLIZZARI), 1889, A., 518.
- 1-Phenyl-3-methylpyrazolone-4-ketophenylhydrazone (v. BUCHKA and SPRAGUE), 1890, A., 28.
- 1-Phenyl-3-methylpyrazolone-p-sulphonic acid (MOLLENHOFF), 1892, A., 1245.
- 1-Phenyl-3-methylpyrazolone-p-sulphonic chloride, 4-dichloro- (MOLLENHOFF), 1892, A., 1246.
- Phenyl- α -methylpyridazone, and γ -chloro- (ACU), 1890, A., 71.
- 4-Phenyl-2-methylpyrroldiazolone (ANDREOCCI), 1890, A., 889.
- 1-Phenyl-2-methylpyrrolidone-2-carbonitrile and -carboxylic acid (KUNLING), 1889, A., 1211, 1212.
- Phenylmethylpyrroline, synthesis of (PAAL), 1885, A., 516.
- 5-Phenyl-2-methylpyrroline-3-carboxylic acid (LEDERER and PAAL), 1886, A., 75.
- γ -Phenyl- β -methyl- and β -phenyl- γ -methyl- ψ -quinazolones (KORNER), 1887, A., 1045.
- 2'-Phenyl-1-methylquinoline (DOEBNER and GIESEKE), 1888, A., 300.
- 2'-Phenyl-2-methylquinoline, *p*-amido- (WEDEL and BAMBERGER), 1888, A., 966.
- 2'-Phenyl-3'-methylquinoline, 4-amido-. See Flavaniline.
- m*-amido- and *m*-nitro- (v. MILLER and KINKELIN), 1886, A., 561.
- Phenyl-2'-methylquinoline, amido- (SCHIFF and VANNI), 1890, A., 1298.
- 4'-Phenyl-2'-methylquinoline (*phenylquinaldino*) and its derivatives (GEIGY and KOENIGS), 1885, A., 1236.
- synthesis of (BEYER), 1886, A., 630.
- 2'-Phenylmethylquinoxaline, constitution of (LELLMANN and DONNER), 1890, A., 525.
- μ -Phenyl- α -methyl-selenazole and -selenazole- β -carboxylic acid (HOFMANN), 1889, A., 727.
- Phenylmethylsemithiocarbazides (DIXON), 1890, T., 261; P., 26; (v. BRUNING), 1890, A., 23.
- Phenylmethylsuccinic acids (ZELINSKY and BUCHSTAB), 1891, A., 1065.
- Phenylmethylsulphonamic acid, ammonium salt of (TRAUBM), 1891, A., 569.
- Phenylmethylsulphone (OTTO), 1885, A., 536.
- mono*- and *di*-chloro- (OTTO), 1888, A., 483; 1890, A., 380.
- iodo- (MICHAEL and PALMER), 1885, A., 536.
- Phenylmethyltaurine (*antididoxethionic acid*) and its salts (ANDREASCH), 1883, A., 665.
- preparation of (JAMES), 1885, T., 372; P., 47.
- Phenyl- β -methyltaurocarbamicanhydride (PRAGER), 1890, A., 159.
- Phenylmethyltetrahydrofurfuran (*phenylmethyltetramethylene oxide*) (PAAL), 1885, A., 250.
- properties of (COLEFAX), 1891, T., 194.
- Phenylmethyltetrahydroketoquinoxaline (GEORGESEU), 1892, A., 886.
- 1-Phenyl-2-methyltetrahydropyridine (LIPP), 1892, A., 1244.
- 3-Phenyl-1-methyltetrahydroquinoline, derivatives of (LA COSTE and SORGER), 1886, A., 81.
- 3'-Phenyl-2'-methyltetrahydroquinazoline (PAAL and KRECKE), 1892, A., 81.
- α -Phenyl- μ -methylthiazole (HANTZSCH), 1888, A., 574; 1889, A., 724.
- μ -Phenyl- α -methylthiazole (HUBACHER), 1891, A., 221.
- μ -Phenylmethylthiazoline and its derivatives (GABRIEL and HEYMANN), 1891, A., 701.

- Phenylmethylthiocarbamides** (GEBHARDT), 1884, A., 1321; 1885, A., 383.
- Phenylmethylthiocarbamine chloride and oxide** (BILLETTER), 1887, A., 823.
- Phenylmethylthiohydantoin** (MARCKWALD, NEUMARK and STELZNER), 1892, A., 150.
- 4:2-Phenylmethylthiophen and its derivatives** (PAAL and PÜSCHEL), 1887, A., 1101.
- 5:2-Phenylmethylthiophen, synthesis of** (PAAL), 1885, A., 516.
- Phenylmethyl-*p*-toluamide** (LELLMANN and BENZ), 1891, A., 1215.
- Phenylmethyltriazenylamidoxime derivatives** (BLADIN), 1889, A., 977.
- Phenylmethyltriazenylazoxime-benzoyl and -ethenyl** (BLADIN), 1889, A., 978.
- Phenylmethyltriazole** (BLADIN), 1887, A., 139.
- Phenylmethyltriazolecarboxylic acid and its derivatives** (BLADIN), 1887, A., 138; 1890, A., 1165; 1891, A., 472.
- p*-Phenylmethyluramidobenzoic acid (*p*-phenylmethylglycoluric acid)** (GUARESCHI), 1892, A., 828.
- Phenylmethylurethane** (GEBHARDT), 1885, A., 384.
- Phenylmethylxylamide** (LELLMANN and BENZ), 1891, A., 1215.
- Phenylmethyl-** See also Methylphenyl-.
- 1-Phenylmorpholine** (KNORR), 1889, A., 1219.
- α -Phenyl- α - and - β -naphthacinchonic acids** (DOEBNER and KUNTZE), 1889, A., 411.
- β -Phenyl-naphthalene** (SMITH), 1889, P., 70.
- Phenyl- β -naphthacridine** (RIS), 1884, A., 1357; (CLAUS and RICHTER), 1884, A., 1358.
- Phenyl-naphthaphenanthrazonium hydroxide and its salts** (WITT), 1887, A., 730.
- 2'-Phenyl- α - and - β -naphthaquinolines** (DOEBNER and KUNTZE), 1889, A., 411, 412.
- Phenyl-naphthaquinone from the hydrocarbon $C_{18}H_{12}$** (ZINCKE and BREUER), 1885, A., 269.
- Phenyl- β -naphthindoles, 2'- and 3'-** (INCE), 1890, A., 57.
- Phenyl- β -naphthol, diamido-, and 2:4-dinitro-** (ERNST), 1891, A., 300.
- Phenyl-naphthostilborosindene** (WITT and SCHMIDT), 1892, A., 1247.
- Phenyl-naphthyl- acetic acid and -acetonitrile** (MICHAEL and JEANPRÉTRE), 1892, A., 1094.
- Phenyl- α -naphthylamine** (FRIEDLÄNDER), 1881, A., 80.
- 2:1-dinitro-** (HEIM), 1888, A., 488, 1096.
- (?) 4:2-nitranido-** (HEIM), 1888, A., 1096.
- thio-** (KYM), 1890, A., 1307.
- Phenyl- β -naphthylamine** (FRIEDLÄNDER), 1884, A., 80.
- action of oxalic acid on** (MELDOLA), 1883, A., 807.
- amido-** See Phenyl-naphthylenediamine.
- diamido-** (ERNST), 1891, A., 301.
- azo-derivatives of** (ZINCKE and LAWSON), 1887, A., 730; (ZINCKE), 1890, A., 990.
- 2:4-dinitro-** (HEIM), 1888, A., 488; (ERNST), 1891, A., 300.
- nitranido-** (HEIM), 1888, A., 488.
- thio-** (KYM), 1890, A., 1307.
- Phenyl-naphthylamine-blue** (HAUSDÖRFER), 1890, A., 1308.
- Phenyl- α -naphthylbiazolon** (FREUND), 1892, A., 509.
- Phenyl- β -naphthylcarbamide** [m.p. 220°] (GOLDSCHMIDT and MOLINARI), 1888, A., 1284.
- α -Phenyl- β -naphthylcarbamide** [m.p. 189° and chloride (KYM), 1890, A., 633.
- Phenyl- α -naphthylcarbazole** (KYM), 1890, A., 1307.
- Phenyl-naphthylcarbazole, boiling point of** (SCHWEITZER), 1891, A., 1240.
- α -Phenyl-naphthylcarbinol** (BECKMANN), 1889, A., 781.
- Phenyl- α -naphthylenediamine** (ZINCKE and LAWSON), 1887, A., 730; (HARDEN), 1890, A., 631.
- action of benzaldehyde and of salicylaldehyde on** (FISCHER), 1892, A., 1472.
- action of nitrous acid on** (ZINCKE and CAMPBELL), 1890, A., 788.
- condensation of, with benzoin** (FISCHER), 1891, A., 748.
- Phenyl-naphthylene-ethyldiamine**
- action of benzaldehyde on** (FISCHER), 1892, A., 1472.
- Phenyl-naphthylethylazammonium iodide** (ZINCKE and CAMPBELL), 1890, A., 787.
- Phenyl- α -naphthylethylthiocarbamide** (MAINZER), 1883, A., 1106.
- Phenyl- α -naphthylformamidine** (COMSTOCK and WHEELER), 1892, A., 706.
- Phenyl- α -naphthylglycollic acid** (BECKMANN), 1889, A., 781; (BECKMANN and PAUL), 1892, A., 170.

- Phenyl- α - and - β -naphthylhydrazines, *o*-*p*-dinitro- (WILGERODT and SCHULZ), 1891, A., 572.
- 5-Phenyl- α - and - β -1-naphthyl-2-methylpyrroline-3-carboxylic acids (LEDERER and PAAL), 1886, A., 76.
- Phenyl- β -naphthylmethylthiocarbamide (GERHART), 1884, A., 1321.
- all*-Phenyl- α - β -naphthyl-naphthatriazine (MELDOLA and FORSTER), 1891, T., 698.
- Phenyl-naphthylpinacolone (ELBS), 1887, A., 943.
- Phenyl- α - and - β -naphthylsemithiocarbazides (DIXON), 1892, T., 1019; (FREUND), 1892, A., 508.
- Phenyl- α -naphthyl- ψ -thiobiazolone (FREUND), 1892, A., 510.
- Phenyl-naphthylthiocarbamides (MAINZER), 1883, A., 1107; (FREUND and WOLF), 1892, A., 984.
- Phenyl-nitroethylene. See Styrene, nitro.
- Phenyl-nitrobenzenesulphazide, *m*- and *p*-nitro- (LIMPRICHT), 1887, A., 723.
- Phenyl-*m*-nitrobenzenylamidine (LOHSEN), 1892, A., 52.
- Phenyl-*o*-, *m*- and *p*-nitrobenzenyl-naphthylenediamines (FISCHER), 1892, A., 1473.
- Phenyl-*m*-nitrobenzimidazo-ether (LOHSEN), 1892, A., 52.
- Phenyl-*m*-nitrobenzylamine (BORMANN), 1886, A., 57.
- Phenyl-*di*-*o*-nitro-dibenzylhydrazine (PAAL and BODEWIG), 1892, A., 1456.
- Phenyl-nitromethane. See Toluene, nitro.
- Phenyl-tetranitronaphthylamine (MERZ and WEITH), 1883, A., 344.
- Phenyl-*p*- and -*o*-nitrophenyl oxides, *di*- and *tri*-nitro- (*tri*- and *tetranitro-diphenyl oxides*) (WILGERODT and HURPIN), 1884, A., 1328.
- Phenyl-*o*-*p*-dinitrophenylcarbin cyanide, *p*-nitro- (*trinitro-diphenylacetone-nitrile*) (v. RICHTER), 1888, A., 1186.
- Phenyl-*m*-nitrophenylmethylthiocarbamide (*m*-nitro-*s*-diphenylmethylthiocarbamide) (LELLMANN and BENZ), 1891, A., 1215.
- α -Phenyl-*all*-*m*- and *p*-nitrophenyl-naphthatriazines and *p*- and *m*-nitro- (MELDOLA and FORSTER), 1891, T., 693.
- Phenyl-nitropropionic acid, *p*-nitro-, derivatives of (FRIEDLANDER and MÄHLK), 1885, A., 1137.
- Phenyl-*l*-nitropropionic acid (GABRIEL), 1885, A., 1229.
- Phenyl-nitropropylene and its derivatives (PRIEN), 1881, A., 313; 1885, A., 161.
- Phenyl-nitrosoimidothiazoline (SCHATZMANN), 1891, A., 745; (NAP), 1891, A., 1517.
- Phenyl-nitrososulphone (RÖSWING), 1890, A., 781.
- Phenyl-*l*-nitrotoluidine (γ -dinitrotolyl-phenylamine) (HEPT), 1883, A., 317.
- Phenyl-*m*-nitro-*p*-tolylcarbamide (LEUCKART), 1890, A., 760.
- Phenyl-*o*-nitro-*p*-tolylthiocarbamide, *m*-nitro- (STEUDEMANN), 1884, A., 307.
- Phenyl-nonyl-carbamide and -thiocarbamide (FREUND and SCHÖNFELD), 1892, A., 132, 133.
- Phenyl-octane. See Octylbenzene.
- Phenyl-octonitrile (*heptylbenzyl cyanide*) (ROSSOLIMO), 1889, A., 562.
- Phenyl-oxazoneglyoxalcarboxylic acid (NASTROGEL), 1889, A., 237.
- n*-Phenyl-oxotriazaldehyde (JONAS and v. PECHMANN), 1891, A., 1113.
- n*-Phenyl-oxotriazole and its homologues (JONAS and v. PECHMANN), 1891, A., 1113.
- cyano- (JONAS and v. PECHMANN), 1891, A., 1114.
- n*-Phenyl-oxotriazolecarboxylic acid and its derivatives (JONAS and v. PECHMANN), 1891, A., 1112.
- amido-, and nitro- (BALTZER and v. PECHMANN), 1891, A., 1116.
- n*-Phenyl-oxotriazole-dicarboxylic acid (BALTZER and v. PECHMANN), 1891, A., 1116.
- n*-Phenyl-oxotriazolethiamide (JONAS and v. PECHMANN), 1891, A., 1114.
- Phenyl-oxotriazolecarboxylic acid (v. PECHMANN), 1888, A., 1289.
- n*-Phenyl-oxotriazylamine and *n*-phenyl-oxotriazyl alcohol (JONAS and v. PECHMANN), 1891, A., 1114.
- Phenyl-oxamic acid. See Oxanilic acid.
- μ -Phenyl-oxazoline (GABRIEL and HEYMANN), 1890, A., 1267.
- preparation of (GABRIEL and NEUMANN), 1892, A., 1332.
- m*-nitro- (ELFELDT), 1892, A., 213.
- Phenyl-oxoxazole (CLAISEN and STOCK), 1891, A., 451.
- Phenyl-oxoxazolone (PERKIN and STENHOUSE), 1891, T., 1005; (CLAISEN and ZEDDEL), 1891, A., 468; (HANTZSCH), 1891, A., 740; (NITSCHBERGER), 1892, A., 1177.

- Phenylisooxazolone**, oxime of (CLAISEN and ZEPPEL), 1891, A., 468.
- Phenyloximidoacetic acids**, α - and β - (MULLER), 1883, A., 1129; 1884, A., 584; (HANTZSCH), 1890, A., 1274; 1891, A., 444.
- Phenyloximidoacetoneitrile** (RUSSANOFF), 1892, A., 322.
- α -Phenyloxyacrylic acid**. See Coumaric acid.
- β -Phenyloxyacrylic acid**. See Phenylglycidic acid.
- Phenylparabanic acid** (V. STOLTENTIN), 1885, A., 1196.
- Phenylparaconic acid** and its salts (JAYNE), 1883, A., 472; (FITTIG and ROBERS), 1890, A., 621. constitution of (ERDMANN), 1884, A., 906. nitration of (ERDMANN), 1886, A., 67. bromo- and isobromo- (FITTIG and LEONT), 1890, A., 895. chloro- (*o*-, *m*- and *p*-), disubstituted naphthalenes from (ERDMANN and KIRCHHOFF), 1889, A., 150. 2,4-, 2,5- and 3,4-dichloro-, and their derivatives (ERDMANN), 1889, A., 265; (SCHWECHTEN), 1890, A., 619; (ERDMANN and SCHWECHTEN), 1891, A., 450. nitro- (SALOMONSON), 1885, A., 1224; 1888, A., 480.
- Phenylparamide** (*acetic acid, phenylimide of*) (HOTTE), 1885, A., 1220.
- Phenylpentane**. See Amylbenzene.
- ω -Phenylpentamethylene glycol** and bromide (KIPPING and PERKIN), 1890, T., 311, 313.
- Phenylpentamethylpyrazolone** (1- ψ -cumyl-2:3-dimethylpyrazolone) (HALLER), 1885, A., 818.
- Phenylpentenoic acid**. See Hydrostyrylacrylic acid and Phenylmethylisocrotonic acid.
- μ -Phenylpentoxazoline** (GABRIEL and ELFEINT), 1892, A., 212. *m*-nitro- (ELFEINT), 1892, A., 211.
- Phenylpentylene**. See Phenylamylene.
- Phenylisopentylene**. See *iso*Amylbenzene.
- Phenylphenacyl oxide**, *m*-nitro- (LELLMANN and DONNER), 1890, A., 523.
- 2'-Phenylphen-*p*-azoxine** (LELLMANN and DONNER), 1890, A., 524.
- Phenylphenotriazole**, *meso*- (KEHRMANN and MESSINGER), 1892, A., 889.
- Phenyl-*o*-phenylenediamine** (*amidodiphenylamine*) (SCHÜFF), 1890, A., 1113.
- Phenyl-*p*-phenylenediamine** (IKUTA), 1888, A., 167; (HENCKE), 1890, A., 609.
- Phenyl-*o*-phenyleneguanidine** (KELLER), 1891, A., 1469.
- "Phenyl-*p*-phenylglycoluric acid"** (GUARIESCHI), 1892, A., 828.
- Phenylphenylhydrazine**, 3-bromo-6-nitro- (WILLGERODT), 1888, A., 949. *allo-m*-chloro-*o*-nitro-, preparation of (WILLGERODT and ELLON), 1891, A., 1361.
- Phenyl-*all*-phenylnaphthatriazine**. See Diphenyl- $\alpha\beta$ -naphthatriazine.
- Phenylphenylsemithiocarbazides**, *o*- and *p*-chloro- (HEWITT), 1891, T., 210, 212.
- Phenylphosphoric acid**. See Phenylic phosphate.
- Phenylphosphorous acid** (NOACK), 1883, A., 736.
- Phenylphosphoryl chloride** (NOACK), 1883, A., 735.
- Phenylphosphoryl *di*-, *tetra*- and thiochlorides** (ANSCHÜTZ and EMERY), 1890, A., 34, 35.
- 5-Phenylisophthalic acid** (DOEBNER), 1890, A., 1284; 1891, A., 1065.
- o*-Phenylphthalidecarboxylic acid**, isomeride of (JULLIARD), 1888, A., 955.
- Phenylphthalimide**, preparation of (HALLER), 1892, A., 1204.
- Phenylpiperazine**, *p*-nitro- (SCHMIDT and WICHMANN), 1892, A., 210.
- 1-Phenyl-3:6-*o*-piperazone** (MICHAELIS and HERMENS), 1892, A., 1494.
- 1-Phenylpiperidine** and its derivatives (LELLMANN), 1887, A., 604; (LELLMANN and GELLER), 1888, A., 1107. *o*-amido- (LELLMANN and JUST), 1891, A., 1245. *p*-amido-, formation of dyes from (LELLMANN and GELLER), 1888, A., 1108. *p*-bromo- (LELLMANN and JUST), 1891, A., 1244. nitro-derivatives of (LELLMANN), 1887, A., 604.
- γ -Phenylpiperidine** (BALLY), 1888, A., 65.
- Phenylpiperidylcarbamide** (GERHARDT), 1885, A., 384; (WALLACH and LEHMANN), 1887, A., 385.
- Phenylpiperidylactic acid** (ERLENMEYER), 1889, A., 988.
- Phenylpiperidylthiocarbamide** (SKINNER and RUIHEMANN), 1888, T., 558.
- α -Phenylpropaldehyde** (V. MILLER and ROHDE), 1891, A., 898.
- β -Phenylpropaldehyde** (*hydrocinnamaldehyde*) (V. MILLER and ROHDE), 1890, A., 979.
- Phenylpropargyl oxide** (HENRY), 1883, A., 803.

Phenylpropenylamidine (MICHAEL and WING), 1885, A., 963.

Phenylpropionic acid (PERKIN and BELLENOT), 1886, T., 441.

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α -Phenylpropionamide (JANSSEN), 1889, A., 596.

β -Phenylpropionamide (v. HOFMANN), 1886, A., 45; (HUGHES), 1891, P., 71.

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α -Phenylpropionic acid (*hydratropic acid*) (OLIVIER), 1890, A., 375.

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β -Phenylpropionic acid (*hydrocinnamic acid*) and its derivatives (GABRIEL), 1883, A., 195; (GABRIEL and HENZBERG), 1883, A., 1123; (HENZBERG), 1885, A., 661.

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3:4-diamido- (GABRIEL), 1883, A., 195.

***m*-bromo-** (GABRIEL), 1883, A., 195.

3:4-bromamido- (GABRIEL), 1883, A., 195.

***o*-, *m*- and *p*-chloro-** (HENZBERG), 1885, A., 661.

***p*-chloro-** (MYERS), 1892, A., 1222.

***o* β -*di*chloro-** (ERLENMEYER), 1883, A., 196.

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***o*-, *m*- and *p*-iodo-** (HENZBERG), 1885, A., 661.

3:5-dinitro-4-amido- (STOEHR), 1884, A., 1350.

α -Phenylpropionic anhydride, *o*-amido-. See Atroxindole.

β -Phenylpropionic anhydride, *o*-amido-. See Hydrocarbostyrl.

β -Phenylpropionic (*cinnamic*) **chloride** (HUGHES), 1891, P., 71.

α -Phenylpropionitrile (MEYER), 1889, A., 596.

Phenylpropionylcarbamide (KÜHN), 1885, A., 260.

Phenylpropylacetamide, **β - and γ -bromo-** (ELFELDT), 1892, A., 214.

Phenylpropylacetic acid (RONSOLYMO), 1889, A., 861.

Phenylisopropylacetylglucolic acid, See Acetylumylglucolic acid.

Phenylpropylamine and its derivatives (TAFEL), 1886, A., 940; 1889, A., 976; (GARELLI), 1892, A., 845.

***di*- and *tri*-nitro-** (VAN ROMBURGH), 1886, A., 455.

Phenylisopropylamine (EDELEANU), 1887, A., 583.

Phenylisopropylbenzenyl-naphthylendiamine (FISCHER), 1892, A., 1473.

Phenylpropylcarbinol (MARSHALL and PERKIN), 1891, T., 886.

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1-Phenyl-4-isopropylene-3:5-pyrazolidone (MICHAELIS and BURMEISTER), 1892, A., 1005.

Phenylpropylene- ψ -semithiocarbazide (AVENARIUS), 1891, A., 550.

Phenylpropylene- ψ -thiocarbamide (PRAGER), 1890, A., 159.

Phenylisopropylethylene glycol (FOSSEK), 1884, A., 833.

Phenylisopropylhydrazine (PHILIPS), 1887, A., 1104.

Phenylpropylic alcohol (ERRERA), 1887, A., 35.

Phenylisopropylic alcohol (*benzylmethylcarbinol*) (ERRERA), 1887, A., 35.

Phenylisopropylketone-*o*-carboxylic acid (*benzoylisopropyl-*o*-carboxylic acid*) (ROSEN), 1885, A., 268.

Phenylpropylnitramine, ***tri*-nitro-** (VAN ROMBURGH), 1886, A., 455.

Phenylpropylthiocarbamine chloride (BILLETTER and STROHL), 1888, A., 364.

Phenyl-propyl- and -isopropyl-triazole-carboxylic acids (BLADIN), 1892, A., 638.

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Phenylmetapyrazole (PINNER and LIFSCHÜTZ), 1887, A., 1055.

1-Phenylpyrazole (BALBIANO), 1887, A., 1054; 1889, A., 1215; (KNORR and LAUBMANN), 1889, A., 410.

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4-bromo- and *di*- and *tri*-bromo- (BALBIANO), 1890, A., 797.

2-Phenyl- β -pyrazole. See 2-Phenylglyoxaline.

- 1-Phenylpyrazole-4-carboxylic acid (KNORR and LAUBMANN), 1889, A., 410.
- 1-Phenylpyrazole-5-carboxylic acid (CLAISEN and ROOSEN), 1891, A., 1107.
- 1-Phenylpyrazole 3:5-dicarboxylic acid (BALBIANO), 1890, A., 1164; (CLAISEN and ROOSEN), 1891, A., 1107.
- 4-bromo- (BALBIANO), 1890, A., 1165.
- 1-Phenylpyrazole-3:4:5-tricarboxylic acid (KNORR and LAUBMANN), 1889, A., 410.
- 1-Phenylpyrazolidine (MICHAELIS and LAMPE), 1892, A., 355.
- 1-Phenyl-3:5-pyrazolidone (MICHAELIS and BURMEISTER), 1892, A., 1001.
- 4-oxime of (MICHAELIS and BURMEISTER), 1892, A., 1005.
- 1-Phenyl-3:5-pyrazolidone-4-azobenzene (MICHAELIS and BURMEISTER), 1892, A., 1005.
- 1-Phenylpyrazoline (FISCHER and KNOEVENAGEL), 1887, A., 932; (BALBIANO), 1889, A., 1215.
- Phenylmetapyrazolone (*α*-phenylthylantoin) (PINNER), 1888, A., 1102.
- Phenylpyrazolone (*quinidine*) derivatives, constitution of (KNORR), 1884, A., 1377; 1887, A., 601.
- 1-Phenylpyrazolone (RUHEMANN and MORRELL), 1892, T., 799.
- 1-Phenylisopyrazolone and 4-bromo- (FISCHER and KNOEVENAGEL), 1887, A., 933.
- 1-Phenylpyrazolone-3-carboxylic acid (BUCHNER), 1890, A., 156.
- 1-Phenylpyrazolone-4-carboxylic acid (RUHEMANN and MORRELL), 1892, T., 797, 799.
- 1-Phenylpyrazolone-3-carboxylic acid, 4-amido- (TAFEL), 1887, A., 468.
- 2-Phenylpyridine (SKRAUP and COBENZL), 1883, A., 1015.
- 3-Phenylpyridine, and its diketone (SKRAUP and COBENZL), 1883, A., 1013.
- 4-Phenylpyridine, and its salts (HANTZSCH), 1884, A., 1194.
- 2-Phenylpyridine ketone, and its salts (SKRAUP and COBENZL), 1883, A., 1015.
- 3-Phenylpyridinecarboxylic acid and its salts (SKRAUP and COBENZL), 1883, A., 1012.
- Phenylpyridinedicarboxylic acids, 2- and 3-, and their salts (SKRAUP and COBENZL), 1883, A., 1014, 1011.
- 2-Phenylpyridinedicarboxylic acid, dibromo-, and its salts (SKRAUP and COBENZL), 1883, A., 1014.
- 2-Phenylpyridinephenyleneketonecarboxylic acid (DOEBNER and KUNTZE), 1889, A., 412.
- 3-Phenylpyridinesulphodicarboxylic acid (FIMMERHEIMER), 1889, A., 527.
- 4-Phenylpyridinetetracarboxylic acid, and its salts (HANTZSCH), 1884, A., 1193.
- 1-Phenyl-4-pyridone, *αβ*-trichloro- (ZINCKE), 1890, A., 965; (ZINCKE and FUCHS), 1892, A., 448.
- 1-Phenyl-4-pyridonecarboxylic acid, *αβ*-trichloro- (ZINCKE), 1890, A., 965; (ZINCKE and FUCHS), 1892, A., 448.
- Phenylpyrroldiazolecarboxylic acid, 1:3-, synthesis of (ANDREOCOT), 1892, A., 636.
- 1-Phenylpyrrolineazobenzene (FISCHER and HEFT), 1886, A., 1042.
- 1-Phenylpyrroline-2:5-dibenzoic acid (BAUMANN), 1887, A., 735.
- Phenylpyruvic acid (PLOCCHI), 1884, A., 604; 1887, A., 254; (ERLENMEYER), 1887, A., 142, 1046; (WISLICIENUS), 1887, A., 587.
- synthesis of (ERLENMEYER), 1889, A., 990.
- Phenylquinaldine. See Phenyl-2'-methylquinoline.
- Phenylquinaldinic acid. See 4'-Phenylquinoline-2'-carboxylic acid.
- 2'-Phenylquinazoline (GABRIEL and JANSEN), 1890, A., 1442.
- α*-Phenylquininic acid (DOEBNER), 1889, A., 411.
- Phenylquinoline, amido- [m.p. 186°] (JELINEK), 1886, A., 1045.
- 1-Phenylquinoline and its derivatives (LA COSTE and SORGER), 1886, A., 80.
- 3-Phenylquinoline and its derivatives (LA COSTE and SORGER), 1886, A., 81.
- amido- (WEIDEL and v. GEORGEVICS), 1888, A., 967.
- 2'-Phenylquinoline, preparation of (FRIEDLÄNDER and GÖTHING), 1883, A., 1148; (DOEBNER and v. MILLER), 1883, A., 1149.
- derivatives of (DOEBNER and v. MILLER), 1886, A., 721; (MURMANN), 1892, A., 1003.
- 2-amido- (v. MILLER and KINKELIN), 1885, A., 1141.
- 3'-Phenylquinoline, preparation of (FRIEDLÄNDER and GÖTHING), 1883, A., 1148.
- 4'-Phenylquinoline and its derivatives (GRIMAUX), 1883, A., 668; (KORNIC and NEF), 1886, A., 1015; 1887, A., 599.

- 3'-Phenylisoquinoline and 4'-amido-, and 1':4'-chloronitro- (GABRIEL), 1886, A., 265, 630.
- Phenylquinolineamine, and its salts (FRIEDLÄNDER and WEINBERG), 1885, A., 990.
- 2'-Phenylquinoline-4'-carboxylic acid (*α*-phenyleinchonic acid) (DOERNER), 1887, A., 504.
- homologues of (DOERNER and GIESKE), 1888, A., 300.
- 4'-Phenylquinoline-2'-carboxylic acid (*phenylquinoldinic acid*) (KOENIG and NEF), 1886, A., 1045.
- 3-Phenylquinoline-mono- and -di-carboxylic acids (CLAUS and NICOLAYSEN), 1886, A., 68.
- 2'-Phenylquinolinesulphonic acids (MURMANN), 1892, A., 1003.
- 3-Phenylquinoline-*p*- and -*β*-sulphonic acids and their salts (LA COSTE and SORGER), 1886, A., 82.
- Phenylquinonediiimide (HFNCKE), 1890, A., 609.
- Phenylrosaniline, *d*-nitro- (NOLTING), 1883, A., 54.
- Phenylrosinduline (*rosinduline*) (FISCHER and HEPP), 1888, A., 1291; 1890, A., 909.
- amido- (FISCHER and HEPP), 1890, A., 765.
- Phenylrosindulinesulphonic acid (FISCHER and HEPP), 1891, A., 1045.
- Phenylsalicyluramidoxime (SPILKER), 1890, A., 144.
- Phenylsalicylic acid (GRAEBE), 1888, A., 477; (ARBENZ), 1890, A., 892.
- tribromo*-, and *d*-nitro- (ARBENZ), 1890, A., 893.
- Phenylsantoninmethane, *m*-nitro- (BERTONI), 1892, A., 622.
- α*-Phenylselenazylamine (HOFFMANN), 1889, A., 720.
- Phenylseleniocarbamide (STOLTE), 1886, A., 781.
- Phenylseleniocarbimide (STOLTE), 1887, A., 43.
- Phenylsemicarbazide (EDULEANU), 1892, A., 1323.
- o*-chloro- (HEWITT), 1891, T., 210.
- Phenylsemithiocarbazide (SKINNER and RUEHMANN), 1888, A., 271.
- Phenylsorbinosazone (FISCHER), 1887, A., 567.
- Phenylsucceinylamidine (COMSTOCK and WHEELER), 1892, A., 702.
- Phenylsuccinamic acid, *p*-bromo- (HOOGWERFF and VAN DORP), 1891, A., 196.
- Phenylsuccinamide, constitution of (HOOGWERFF and VAN DORP), 1891, A., 197.
- action of potassium hypobromite on (HOOGWERFF and VAN DORP), 1891, A., 196.
- p*-bromo-, and bromamido- (HOOGWERFF and VAN DORP), 1891, A., 196.
- Phenylsuccinazone (CIAMICIAN and ZANETTI), 1890, A., 1120.
- Phenylsuccinimide (MOINE), 1887, A., 489.
- preparation of (HALLER), 1892, A., 1201.
- Phenylsulpharsenic acid, disodium salt of (SCHULTE), 1883, A., 187.
- Phenylsulphineacetic acid, non-existence of (OTTO and ENGELHARDT), 1887, A., 263.
- "Phenylsulphocycamine," *α*-amido- (VILLE), 1887, A., 833.
- Phenylsulphonamic acid (TRAUBE), 1890, A., 1137.
- β*-bromo-, barium salt of (TRAUBE), 1891, A., 569.
- Phenylsulphone. See Diphenylsulphone.
- Phenylsulphoneacetates, properties of (MICHAEL and PALMER), 1885, A., 986.
- Phenylsulphoneacetanamine (R. and W. OTTO), 1888, A., 282.
- Phenylsulphoneacetone (OTTO), 1886, A., 801; (OTTO and ROSSING), 1890, A., 780.
- Phenylsulphoneacetonephenylmercaptole (R. and W. OTTO), 1888, A., 282; (OTTO and ROSSING), 1891, A., 568.
- Phenylsulphoneacetoxime (R. and W. OTTO), 1888, A., 282.
- Phenylsulphone-*o*-amido- and -*o*-nitro-anilides and -*m*-amido- and -*m*-nitro-*p*-toluidides (LEWELMANN), 1884, A., 51.
- Phenylsulphone-*δ*-amidovaleric acid (SCHOTTEN and SCHULMANN), 1892, A., 354.
- Phenylsulphone-mono- and -di-bromacetones (R. and W. OTTO), 1888, A., 282.
- Phenylsulphone-*β*-bromamide (HOOGWERFF and VAN DORP), 1888, A., 1194.
- α*-Phenylsulphone-*α*-bromopropionic acid (OTTO), 1890, A., 381.
- α*-Phenylsulphonebutyric acid (R. and W. OTTO), 1888, A., 577.
- β*-Phenylsulphone-crotonic and -isocrotonic acids (AUTENRIETH), 1891, A., 203.
- Phenylsulphone-ethyl alcohol, and its derivatives (OTTO and DAMKÖHLER), 1885, A., 262.

- Phenylsulphone-ethyl sulphate and chloride (OTTO and DAMKÖHLER), 1885, A., 262, 263.
- Phenylsulphonehydroxypropionic acid, *p*-chloro- (KONIG), 1892, A., 1091.
- Phenylsulphonephenylbenzenylamidine (WALLACH), 1883, A., 48.
- Phenylsulphonephenylhydrazine (ECCALES), 1885, A., 798.
- α -Phenylsulphonepropionic acid (OTTO), 1890, A., 381.
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- β -Phenylsulphonepropionic acid (OTTO), 1888, A., 360.
- Phenylsulphonepropionic acid, *p*-chloro- α -amido- (KONIG), 1892, A., 1091.
- Phenylsulphonetetrahydroquinoline (SCHOTTEN and SCHLÖMANN), 1892, A., 355.
- Phenyltaurine and its salts (ANDRÉASCH), 1883, A., 664.
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anilide, and its hydrochloride (LEYMANN), 1885, A., 786.
- Phenyltaurocyamine, formation of (JAMES), 1885, T., 373.
- Phenyltetrahydro- α - and - β -naphtha-benzyl-carbamides and -thiocarb-amides (BAMBERGER and HELWIG), 1889, A., 1198.
- 2'-Phenyltetrahydro- α -naphthaquinoline (DOEBNER and KUNTZE), 1889, A., 412.
- Phenyl- α -tetrahydronaphthyl-carb-amide and -thiocarbamide (BAMBERGER and ALTHAUSSE), 1888, A., 960.
- 1-Phenyl- Δ^2 -tetrahydropicoline (ILPP), 1892, A., 1214.
- 3'-Phenyltetrahydroquinazoline (PAAL and BUSCH), 1890, A., 73.
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- 2'-Phenyltetrahydroquinoline and its nitroso-derivative (DOEBNER and V. MILLER), 1886, A., 722.
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- Phenyltetra-*m*-hydroxydiphenyl-methane, *p*-nitro- (SIBONI), 1892, A., 621.
- Phenyltetra-*p*-hydroxydiphenyl-methane, *o*-nitro- (SIBONI), 1892, A., 621.
- Phenyltetra-*p*-hydroxydiphenyl-methanes, *m*- and *p*-nitro- (BERTONI and ZENONI), 1892, A., 620.
- Phenyltetramethylene dibromide and glycol (MARSHALL and PERKIN), 1891, T., 890.
- Phenyltetramethylpyrazolone (1-*ψ*-cumylmethyloryguinazolin) and its oxime (HALLER), 1885, A., 818.
- Phenyltetrazenylamidoxime (BLADIN), 1889, A., 979.
- Phenyltetrazolecarboxylic acid, amido- and nitro- (BLADIN), 1892, A., 1009.
- Phenyltetrazolecarboxylthiamide (BLADIN), 1892, A., 638.
- Phenyltetric acid (MOSCHELES and CORNELIUS), 1888, A., 1272.
- Phenyltetrose (FISCHLER and STEWART), 1892, A., 1447.
- m*-Phenylthiamidobenzoic acid (ASCHIAN), 1884, A., 907.
- α -Phenylthiazole (ARAPINE), 1889, A., 411; (POPP), 1889, A., 725.
- μ -Phenylthiazole (HUBACHER), 1891, A., 221.
- Phenylthiazoline (HANTZSCH and TRAUMANN), 1888, A., 573; (GABRIEL and HEYMAN), 1890, A., 524.
- Phenylthiazylamine (TRAUMANN), 1889, A., 415.
- Phenylthienylmethane (PIETER), 1884, A., 1001.
- α -Phenyl- β -thiobiuret (HECHT), 1892, A., 704; (FROMM), 1892, A., 844.
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- Phenylthiocarbamine isobutylcyanamide (HECHT), 1892, A., 703.
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- Phenylthiocarbimide-aldehyde-ammonia**, and action of silver nitrate on (DIXON), 1892, T., 518, 521.
- α -Phenyl-dithiodimethylketuret** (FROMM), 1892, A., 844.
- Phenylthio-hydantoic acid and -hydantoin** (ASCHAN), 1884, A., 907.
- Phenylthiophen** and its derivatives (RENNARD), 1890, A., 134.
- α -Phenylthiophen**, synthesis of (KUES and PAAL), 1887, A., 238.
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- o*-Phenylthio-uramidocinnamic acid** (ROTHSCHILD), 1890, A., 1123; 1891, A., 198.
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- Phenylthiourethane** (SCHIFF and VANNI), 1892, A., 600.
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- p*-Phenyltolylacetonitrile** (NEURE), 1889, A., 597; (MICHAEL and JEAN-PRÉTRE), 1892, A., 1094.
- Phenyltolylbenzylacetoneitrile** (NEURE), 1889, A., 597.
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- Phenyl-*m*-tolylcarbamide** (v. BUCHKA and SCHLACHTEBECK), 1889, A., 702.
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- Phenyl-*m*-tolylcarbinyllcarbamide** (*homobenzyllcarbamide*) (GOLDSCHMIDT and STOCKER), 1891, A., 1480.
- Phenyl-*p*-tolylcarbinyll-phenylcarbamide and -thiocarbamide** (GOLDSCHMIDT and STOCKER), 1891, A., 1480.
- Phenyl-*o*-tolyl-diketodihydropyrazine** (ABENIUS), 1890, A., 270.
- Phenyl-*o*-tolyl-diketopyrazine**, *dichloro*- (ABENIUS), 1890, A., 526.
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- Phenyl-*m*-tolylmethane and *d*/nitro-** (SENFF), 1884, A., 427.
- Phenyltolylmethanes, diamido-** (ULLMANN), 1888, A., 288.
- 5-Phenyl-1-*o*- and -*p*-tolyl-2-methylpyrrolines** and their 3-carboxylic acids (LEDERER and PAAL), 1886, A., 75.
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- $\alpha\beta$ -Phenyl-*o*-, -*m*- and -*p*-tolylpropanes** (KRAEMER, SPILKER and GERHARDT), 1891, A., 207.
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- Phenyl-*p*-tolylsulphone** (OTTO), 1885, A., 536.
- Phenyl-*p*-tolylthiocarbamide, *o*- and -*m*-nitro-** (STEUDEMANN), 1884, A., 307.

- Phenyltriazolecarboxylic acid** (BLADIN), 1890, A., 1166.
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- Phenyltriazolecarboxylic acid and its salts** (BLADIN), 1890, A., 1165; 1891, A., 472.
- n*-Phenyltrihydrothiazole** (FORRSTER), 1888, A., 946.
- Phenyltrimethylammonium chloride** and hydroxide, action of heat on (COLLIE and SCHRYVER), 1890, T., 777.
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- Phenyltrimethylphenylcarbinol** (*phenylmesitylphenylcarbinol*) (LOUISIE), 1886, A., 542.
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- 1-Phenyl-3:5:5-trimethylpyrazoline** (FISCHER and KNOEVENAGEL), 1887, A., 933.
- 1-Phenyl-3:4:4-trimethylpyrazolone** (KNORR), 1887, A., 601.
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- β -Phenylumbelliferone** (v. PECHMANN and DUISBERG), 1884, A., 67.
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- Phenyl- β -uramidopropionic acid** (HOOGWERFF and VAN DORP), 1891, A., 197.
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- Phenyl-*m*-xylylacetoxime-*o*-carboxylic anhydride, oxime of** (HEILMANN), 1890, A., 625.
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- α*-Phenylxylylpropane** (KRAEMER, SPILKER and EBERHARDT), 1891, A., 207.
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- Spectra of samarium** (CLEVE), 1883, T., 366; (LECOQ DE BOISBAUDRAN), 1885, A., 621; 1892, A., 780; (CROOKES), 1885, A., 1025; (DEMARÇAY), 1886, A., 837; 1887, A., 1008.
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- Spectra** of bile (WERTHEIMER and MEYER), 1889, A., 636.
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- o-Phthalaldehydic acid** (*aldehydo-benzoic acid*) and its derivatives (RACINE), 1886, A., 549; 1887, A., 951; 1888, A., 693; (ALLENDORFF), 1891, A., 1369.
- action of ortho-diamines on (BISTRZYCKI), 1890, A., 969; 1891, A., 746.
- action of potassium cyanide on (GRAEBE and LANDRISER), 1891, A., 1225.
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- Phthalamide**, compounds of, with phenols (OSTERSEIZER), 1891, A., 65.
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- 4-sulpho- (RÉE), 1886, T., 521.
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- isoPhthalamide**, thio- (LUCKENBACH), 1884, A., 1157.
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- Phthalamidoacetic acid**, derivatives of (REES), 1888, A., 143.
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- Phthalamidodiphenylamine** (HENCKE), 1890, A., 609.
- Phthalamidohexoic acid** (REES), 1888, A., 149.
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- Phthalic acid**, amido-, salts of (LANDSBERG), 1883, A., 476.
- 3-bromo- (GUARESCHI), 1884, A., 843; 1886, A., 353; 1888, A., 1300; (MELDOLA), 1885, T., 511; (STALLARD), 1886, T., 187; P., 138.
- 4-bromo- (CARNELEY and THOMSON), 1885, T., 591; P., 88; (NOURRISON), 1887, A., 668.
- 1:4-dibromo- (GUARENCHI), 1881, A., 812.
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- 4-chloro- (CLAUS and KAUTZ), 1885, A., 972; (GRAEBE and RÉE), 1886, T., 526; P., 211.
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- Phthalic acid**, *tetrachloro-*, from *tetrachlorobenzoic acid* (TUST), 1888, A., 836.
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*di*bromo- (CLAUS and WYNDHAM), 1889, A., 143.
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- Phthalic-sulphinide**, derivatives of (MOULTON), 1891, A., 1063.
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- Phthalide** (HJELT), 1886, A., 469.
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- Phthalide, amido-** [m.p. 167°] (RACINE), 1887, A., 951.
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- Phthalidecarboxylic acid** (SCHERKS), 1885, A., 533; (JUILLARD), 1888, A., 707.
- Phthalidohydrazobenzene** (ALLEN-DORFF), 1891, A., 1370.
- Phthalidomethylene** (GABRIEL), 1885, A., 165.
- Phthalido- β -propionic acid**, and its salts (ROSER), 1885, A., 267.
- Phthalimide** (LANDSBERG), 1883, A., 475; (RAMBERGER and MULLER), 1888, A., 950; (AUGER), 1888, A., 953.
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- Phthalimide**, 4-chloro- (GRAEBE and RÉE), 1886, T., 529.
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- Phthalimides**, substituted, and their conversion into the corresponding amines (NEUMANN), 1890, A., 890.
- Phthalimidine** (GRAEBE), 1885, A., 166, 979; 1889, A., 140; (GABRIEL), 1889, A., 253.
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- Phthalimidine, nitroso-** (GRAEBE), 1885, A., 166.
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- ψ -Phthalimidine** (GABRIEL), 1887, A., 1038.
- Phthalimidines**, substituted (GRAEBE and PICTET), 1889, A., 141.
- Phthalimidobenzenesulphonic acid**, sodium salt of (PELLIZZARI and MATTEUCCI), 1888, A., 1302.
- isoPhthalimido-ether**, -dimethyl ether and -dithiodiethyl ether and their hydrochlorides (LUCKENBACH), 1884, A., 1157.
- Phthalimido-isethionie acid** and -naphthalenesulphonic acid, potassium salts of (PELLIZZARI and MATTEUCCI), 1888, A., 1302.
- Phthalimidopropiophenone** (SCHMIDT), 1890, A., 372.
- β -Phthalimidopropyl mercaptan** (SEITZ), 1891, A., 1473.
- Phthalimidoxime** (MULLER), 1886, A., 803.
- Phthalimidylacetic acid** (ROSER), 1885, A., 159; (GABRIEL), 1885, A., 1228.
- Phthalimidylbenzyl**. See Benzylidene-phthalimidine.
- Phthalimidylpropiolactone** and β -phthalimidylpropionic acid (ROSER), 1886, A., 243.
- Phthalobenzophenylhydrazides**, α - and β - (HOTTE), 1887, A., 670.
- Phthalo- ψ -cumidamide** and - ψ -cumidide (FROELICH), 1884, A., 1318.
- Phthalo- m -isocymidide**, and its nitro-compound (KELBE and WARTH), 1884, A., 47.
- Phthalodiamide** (WISLICIENUS), 1888, A., 150.
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- Phthalodiethylbenzidine** (SCHIFF and VANNI), 1890, A., 1297.
- Phthalodiphenylamineaspartides** (PIUTTI), 1885, A., 797; 1886, A., 621.
- Phthalodiphenylasparagines**, two isomeric (PIUTTI), 1885, A., 797.
- Phthalodiphenyldihydrazide** and α -phthalodiphenylhydrazide (HOTTE), 1887, A., 670.
- Phthalodiphenylene** (REULAND), 1890, A., 167.
- Phthalodisarcosine** (REESE), 1888, A., 369.
- Phthalomethimidylacetic acid** (GABRIEL), 1885, A., 1228.
- Phthalo- β -naphthylimide** (MASCHKE), 1887, A., 839.

- iso*Phthalonitrile, preparation of (GOLDBERG), 1890, A., 147.
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- α -Phthalonitrosophenylhydrazide (HÖTTE), 1887, A., 670.
- iso*Phthalphenonediimine (MÜNCHMEYER), 1886, A., 877.
- Phthalophenyl-benzohydrazinic acid and-hydrazidamide (HÖTTE), 1887, A., 670.
- α -Phthalophenylhydrazide (HÖTTE), 1886, A., 353; 1887, A., 670; (PELLIZZARI), 1886, A., 1025; 1888, A., 54.
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- β -Phthalophenylhydrazide (PELLIZZARI), 1886, A., 1025; 1888, A., 54; (HÖTTE), 1887, A., 670.
- Phthalophenylmethyldasparagine (PIUTTI), 1886, A., 621.
- Phthalotaurine (GABRIEL), 1891, A., 816.
- Phthalotoluidides, *o*-, *m*- and *p*- (FRÖHLICH), 1885, A., 155.
- Phthaluric acid and its salts (DRECHSEL), 1883, A., 1126.
- Phthalyl derivatives (ROSER), 1885, A., 165, 267, 797; 1886, A., 243.
- Phthalylacetic acid, and its salts (DRECHSEL), 1883, A., 1126; (ROSER), 1885, A., 165.
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- Phthalylaspartic acid and its derivatives (PIUTTI), 1885, A., 796; 1886, A., 621.
- Phthalylchloroacetic acid (ZINCKE and COOKSEY), 1890, A., 785.
- Phthalyl- ψ -cumidic acid and its salts (FRÖHLICH), 1884, A., 1319.
- Phthalylcyanethine (v. MEYER), 1889, A., 685.
- Phthalylidiegonine (EINHORN and KLEIN), 1889, A., 283.
- o*-Phthalyl-di- α -egonine (DECKERS and EINHORN), 1891, A., 476.
- Phthalylglycocine. See Phthalamido-acetic acid.
- Phthalylisopropylidene (ROSER), 1885, A., 268.
- Phthalyltropine (LADENBURG), 1883, A., 672.
- Phthysical patients, sugar from the lungs and saliva of (POUCHET), 1883, A., 929.
- Phycite. See Erythritol.
- Phycerythrin, isomeric modifications of (SCHUTT), 1889, A., 623.
- Phycophæin (SCHUTT), 1888, A., 496.
- Phycopyrin (SCHUTT), 1890, A., 1173.
- Phyllite from Rimmogens, in the Ardennes (GEINITZ), 1883, A., 447.
- Phyllites of the Tyrolean Alps (PICHLER), 1884, A., 274.
- Phyllocyanic acid (TSCHITRON), 1887, A., 1117; (WOLLHEIM), 1888, A., 723.
- Phyllocyanin (SACHSSE), 1885, A., 670; (SCHUNOK), 1885, A., 1241; (WOLLHEIM), 1888, A., 723.
- Phyllorubin (WOLLHEIM), 1888, A., 723.
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- α -isoPropylcinnamic acid** (DOEBNER), 1887, A., 504.
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- isoPropylcinnamic acid**. See Cumylacrylic acid.
- Propylcinnamoylamides**, β - and γ -bromo- (ELFELDT), 1892, A., 215.
- α -isoPropylcoumarin**, derivatives of (ALDRINGEN), 1892, A., 330.
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- α -isoPropyl-coumaroxime and coumarphenylhydrazide** (ALDRINGEN), 1890, A., 624.
- isoPropyl-m-cresol** and its derivatives (MAZZARA), 1883, A., 463.
- Propylcyanocamphor** (HALLER), 1891, A., 1499.
- Propyl- and isopropyl-deoxybenzoin** (BISCHOFF), 1889, A., 512.
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- 3'-isoPropyldihydroindole** (TRENKLER), 1889, A., 260.
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- Propylene**, 1-amido- (HIRSCH), 1890, A., 860.
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- Propylene**, bromonitro- (ASKENASY and MEYER), 1892, A., 1064.
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- Propylene chlorhydrin**, constitution and oxidation of (MORLEY and GREEN), 1885, T., 132; P., 3.
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- Propylene ethylphenylketate**, preparation and oxidation of (MORLEY and GREEN), 1885, T., 135.
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- 1:2-Propylene glycol** (*trimethyl glycol*), formation of, from acetylcarbinol (PERKIN), 1891, T., 796.
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- 1:3-Propylene glycol** (*trimethylene glycol*) (NIEDERST), 1883, A., 150.
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- Propylene mercaptan** (HAGELBERG), 1890, A., 950.
- Propylene oxide**, heat of combustion of (BRÜHL), 1891, A., 633.
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- Propylenecetal** (DE GRAMONT), 1884, A., 35.
- Propyleneallyl- ψ -thiocarbamide** (HIRSCH), 1890, A., 861.
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- 4-isoPropylenebis-1- and 3-phenylmethylpyrazolone** (KNORR), 1887, A., 602.
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- Propylene- ψ -carbamide** (HIRSCH), 1890, A., 859.
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- Propylenediphenyldisulphone** (STUFFER), 1890, A., 988; 1891, A., 181.
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- Propylene-ethenyldiamine** (*ethenyl-propylenediamine*) (V. HOFMANN), 1888, A., 1051.
- Propyleneglycolcarboxylic acid**. See α , β -Dihydroxybutyric acid.
- Propylene-oxamic acid and -oxamide** (STRACHE), 1888, A., 1173.
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- Propylene- ψ -selenocarbamide hydrobromide** (FITIG and DUBOIS), 1890, A., 880.
- Propylenesuccinimide** (STRACHE), 1888, A., 1173.
- Propylenethiocarbamide methiodide** (GABRIEL), 1890, A., 128.
- Propylene- ψ -thiocarbamide** (GABRIEL), 1890, A., 127; (HIRSCH), 1890, A., 859.
- Propylenic bromide**, conversion of trimethylenic bromide into (GUSTAVSON), 1888, A., 240.
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- Propylethenyltricarboxylic acid**. See *n*-Pentanetricarboxylic acid.
- Propylethyl-**. See Ethylpropyl-.
- isoPropylethylene**. See *a*-isoAmylene.
- Propylethyl cyanide**, oxime of. See Methyl ethylisooxazole, amido-.
- α -imido- (*imidohexonitrile*) (V. MEYER), 1889, A., 114.
- isoPropylformamide** (SPICA), 1887, A., 1028.
- Propylformanilide** (PICTET and CRÉPIEUX), 1888, A., 689; (PICTET), 1890, A., 758.
- Propylisoformanilide** (COMSTOCK and CLAPP), 1892, A., 708.
- isoPropylformanilide** (PICTET and CRÉPIEUX), 1888, A., 689; (PICTET), 1890, A., 758.
- Propylformimide hydrochloride** (PINNER), 1883, A., 1089.
- isoPropylformonaphthylamide** (SPICA), 1887, A., 1028.
- Propylglyoxaline** (*glycolalbutylene*) (RIEGER), 1889, A., 119.
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- isoPropylglyoxaline** (*glycolalisoobutylene*) (RADZIKZEWSKI), 1883, A., 1086; (RIEGER), 1889, A., 120.
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- α -Propylhomopiperidinic acid** (ASCHAN), 1891, A., 467.
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- Propylic salts** of normal fatty acids, boiling points and specific volumes of (GARFENMEISLER), 1886, A., 966.

- Propylic acetate, di-bromo-** (ASCHAN), 1890, A., 1084.
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- Propylidene diethyl and dimethyl ethers** (NEWBURY and BARNUM), 1891, A., 284.
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- Propylideneacetic acid** (*pentenoic acid*) from malonic acid and from *o*-amidophenol (ZINCKE and KUSTER), 1891, A., 821.
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- isoPropylideneacetone**. See Methyl isobutenyl ketone.
- isoPropylidene-*p*-amidophenol** (HAEGELE), 1892, A., 1451.
- Propylideneaniline** (v. MILLER and FLOCHL), 1892, A., 1191.
- Propylenediadicetic acid** (KOMNENOS), 1884, A., 423.
- Propylenediethyldisulphone** (BAUMANN and KAST), 1889, A., 1232; (FROMM), 1890, A., 56.
- isoPropylenediethyldisulphone**. See Diethylsulphonedimethylmethane and Sulphonal.
- Propylenedimethyldisulphone** (BAUMANN and KAST), 1889, A., 1232.
- isoPropylenediphenol** (DIANIN), 1889, A., 1187.
- Propylenepropaldehyde** (LIEBEN and ZEISEL), 1883, A., 570.
- isoPropylindene, amido-** (v. MILLER and ROHDE), 1889, A., 984.
- 3'-isoPropylindole** (FRENKLER), 1889, A., 259.
- Propylitaconic acid** (FITTIG and SCHMIDT), 1890, A., 589.
- Propylitamic acid, salts of** (FITTIG and SCHMIDT), 1890, A., 588.
- isoPropylitamic acid, salts of** (FITTIG and ZANNER), 1890, A., 590.
- Propyllupetidine** (2:6-dimethyl-4-propylhexahydropyridine) (JAECKLE), 1888, A., 1104.
- Propyllutidine** (2:6-dimethyl-4-propylpyridine) (JAECKLE), 1888, A., 1104.
- Propyllutidinedicarboxylic acid** (2:6-dimethyl-4-propylpyridinedicarboxylic acid) (JAECKLE), 1888, A., 1104.
- isoPropylmalic acid** (SCHLEICHER), 1892, A., 428.
- Propylmalonic acids, *n*- and *iso***, thermochemistry of (STOHMANN, KLEBER and LANGBEIN), 1889, A., 1097.
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- Propylmercaptopthalimide**. See Sulphydiopropylphthalimide.
- Propylmethyl-**. See Methylpropyl-.
- β -Propylnaphthalene** (ROUX), 1884, A., 1357; 1888, A., 1305.
- Propyl- α - and - β -naphthylamines** (MINIZ), 1892, A., 1838.
- Propyl- and isopropyl-nitramines and their derivatives** (SIMON-THOMAS), 1891, A., 167.
- Propyl-*m*-nitrobenzamide, β -bromo** (ELFELDT), 1892, A., 213.
- p*-isoPropyl-*o*-nitrophenyl- β -bromopropionic acid** (EINHORN and HESS), 1884, A., 1352.
- isoPropylnitrophenyllactamide** (EINHORN and HESS), 1884, A., 1358.
- isoPropylnitrophenyllactic acid, β -lactone of** (EINHORN and HESS), 1884, A., 1351.
- p*-isoPropyl-*o*-nitrophenyllactic acid and its salts** (EINHORN and HESS), 1884, A., 1353.
- p*-isoPropyl-*o*-nitrostyrene** (EINHORN and HESS), 1884, A., 1353.
- Propylnitrous acid, potassium salt of** (CHANCEL), 1883, A., 915.
- Propyloxamic acid** (CHANCEL), 1892, A., 804.
- Propyloxanthranol** (HALLGARTEN), 1889, A., 895.
- Propylparacetic acid** (FITTIG), 1888, A., 251; (FITTIG and SCHMIDT), 1890, A., 588.
- isoPropylparacetic acid** (FITTIG and ZANNER), 1890, A., 589.
- Propylpentenethiocarbamide, symmetrical** (HEHR), 1892, A., 702.
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- Propylphenylamine** (*p*-amido- β -phenylpropane) and its derivatives (FRANCKSEN), 1884, A., 1007.
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- p*-Propylphenylcarbamide** (FRANCKSEN), 1884, A., 1008.
- p*-Propylphenyldimethylamine** (CLAUS and HOWITZ), 1884, A., 1006.
- isoPropylphenylformamide** (DE VARDA), 1887, A., 1028.
- Propylphenylic cyanide** (FRANCKSEN), 1884, A., 1009.
- p*-Propylphenylthiocarbamides** [m.ps. 159° and 63°] (FRANCKSEN), 1884, A., 1008; (HECHT), 1890, A., 477.
- p*-Propylphenylthiocarbimide** (FRANCKSEN), 1884, A., 1008.
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- isoPropylphosphinecarboxylic acid** (MICHAELIS), 1895, A., 748.
- Propylphosphoric acid** (WINSSINGER), 1888, A., 243.
- isoPropylisophthalic acid** (DOEBNER), 1890, A., 1283; 1891, A., 1064.
- isoPropylphthalide** (ROSER), 1885, A., 268.
- Propylphthalimide** (GABRIEL), 1892, A., 157.
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- Propylphthalimide**, γ -bromo- (GABRIEL and WEINER), 1888, A., 1292.
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 o -Propyl- p -isopropyltoluene (CLAUS), 1892, A., 985.
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 α -*iso*Propylpyridine and its derivatives (LADENBURG), 1885, A., 992; 1887, A., 60.
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- 1-Propylpyrroline (ZANETTI), 1890, A., 66, 908.
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 and its derivatives, rotatory power of (WALLACH and CONRADY), 1889, A., 1072.
 hydrate (BEILSTEIN and WIEGAND), 1883, A., 346.
Sesquiterpenes (WALLACH), 1887, A., 596.
Shikimene (EIJKMAN), 1886, A., 95.
Sylvestrene (WALLACH), 1887, A., 967; (BRÜHL), 1888, A., 377.
 and its derivatives, rotatory power of (WALLACH and CONRADY), 1889, A., 1072.
 nitroschloride (WALLACH), 1888, A., 1099.
Sylvestrenenitrolbenzylamine (WALLACH), 1889, A., 1071.
Terebenthene (*l-pinene*) (BRUHL, BILTZ, CANZLER and REUTER), 1892, A., 624; (BRUHL), 1890, A., 625.
 from camphor oil and its derivatives (YOSHIDA), 1885, T., 782.
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 thermochemistry of (BERHOF and MATIGNON), 1891, A., 1315.
 action of acetic acid and heat on (BOUCHARDAT and LAFONT), 1886, A., 475; 1889, A., 895.
 action of aluminium chloride and of bromine on (VARET), 1891, A., 1084.
 French, action of formic acid on (LAFONT), 1888, A., 495.
 action of picric acid on (LEXTREIT), 1886, A., 71.
 action of sulphuric acid on (BOUCHARDAT and LAFONT), 1888, A., 294.

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- Terebenthene** (*l-pinene*), oxidation of, in sunlight (ARMSTRONG), 1891, T., 311; (ARMSTRONG and POPE), 1891, T., 315.
 monohydric alcohols from (BOUCHARDAT and LAFONT), 1886, A., 475.
 conversion of, into an inactive terpene (BOUCHARDAT and LAFONT), 1886, A., 364.
 derivatives of (PESCI), 1889, A., 158.
 hydrochlorides, liquid (BARBIER), 1883, A., 809.
 hydrochlorides (MARSH and GARDNER), 1891, T., 728.
Terebenthene, amido- (PESCI and BETTELLI), 1887, A., 272.
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 nitrogen derivatives of (TANRET), 1887, A., 595, 675.
 nitro- (PESCI and BETTELLI), 1887, A., 272; (PESCI), 1889, A., 157.
 detection of resin oil in (ZUNKE), 1892, A., 923.
l-**Terebenthene** (PESCI), 1889, A., 157; (ARMSTRONG), 1891, T., 313.
l-**Terebenthene** (ARMSTRONG), 1891, T., 313.
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*iso***Terpene** from the resin of *Pinus Abies* (KURLOFF), 1892, A., 625.
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l-**isoTerpene** (FLAWITZKY), 1887, A., 969.
Terpene from French essence of terebenthene (BOUCHARDAT and LAFONT), 1889, A., 897.
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 dihydrochloride, molecular refraction and dispersion of in solution (GLADSTONE), 1891, T., 591.
Terpinene (WEBER), 1887, A., 596; (WALLACH), 1887, A., 967; 1891, A., 1084.
 benzoylisonitrosite (WALLACH), 1888, A., 1099.
 nitrosite (WALLACH), 1887, A., 967; 1888, A., 60.
Terpinenenitrol-amine, -*iso*amylamine, -diethylamine, -dimethylamine, -ethylamine, -methylamine and -piperidine (WALLACH), 1880, A., 60.

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Terpinolene (WALLACH), 1886, A., 71; 1887, A., 966.

β -Terebangelene (NAUDIN), 1883, A., 810.

Tetrahydropinene (WALLACH and BERKENHEIM), 1892, A., 998.

Winterene (ARATA and CANZONERI), 1890, A., 405.

TERPENE OXIDISED COMPOUNDS:—

Absinthol (BRUHL), 1888, A., 494.

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Camphene glycol (WAGNER), 1890, A., 1313.

Camphor. See Camphor.

Carveol (LEUCKART), 1887, A., 376.

Carvol (*carvole*) (BEYER), 1884, A., 331; (BRUHL), 1888, A., 495.

constitution of (CLARK and FAHRION), 1889, A., 880.

derivatives of (GOLDSCHMIDT), 1884, A., 1138; (GOLDSCHMIDT and KESER), 1887, A., 475, 923;

(WALLACH), 1892, A., 499.

oxime of. See Carvoxime.

Carvolphenylhydrazine (GOLDSCHMIDT), 1884, A., 1138.

Carvyl phenylamidoformate (LEUCKART), 1887, A., 376.

Carvylamine (GOLDSCHMIDT), 1887, A., 249; (LEUCKART and BACH), 1887, A., 377.

Cineol (*eucalyptol*; *eucalyptol*) and its derivatives (WALLACH), 1885, A., 171; 1891, A., 1033; (WALLACH and BRASS), 1885, A., 171;

(JAHN), 1885, A., 894; (BRUHL), 1888, A., 494; (BOUCHARDAT and VOIRY), 1888, A., 719;

(VOIRY), 1888, A., 962.

constitution of (WALLACH), 1890, A., 1315.

Dihydrocarveol (WALLACH), 1892, A., 499.

Fenchone (WALLACH and HARTMANN), 1891, A., 218; (WALLACH), 1891, A., 1082, 1086.

Fenchoneoximes (WALLACH and HARTMANN), 1891, A., 218; (WALLACH), 1891, A., 1087; 1892, A., 1237.

Fenchonitrile and its derivatives (WALLACH), 1892, A., 1236.

Geraniol, oxidation of (SEMMLER), 1891, A., 30.

Linalool (*linalcol*) (SEMMLER), 1891, A., 540; (SEMMLER and TIEMANN), 1892, A., 868; (BARBIER), 1892, A., 1236; (SCHIMMEL), 1892, A., 1347.

TERPENE OXIDISED COMPOUNDS:—

Menthol (BRUHL), 1888, A., 494; (BERKENHEIM), 1892, A., 866.

constitution of (BECKMANN), 1889, A., 723; (BRUHL, BILTZ, CANTZLER and REUTER), 1892, A., 624.

molecular refraction and dispersion of, in solution (GLADSTONE), 1891, T., 591.

specific rotatory and refractive powers of, relation between KANONNIKOFF), 1889, A., 453.

action of carbon disulphide on (BAMBERGER and LODTER), 1890, A., 517.

conversion of into cymene (BRUHL), 1892, A., 200.

oxidation of, by potassium permanganate (ARTH), 1884, A., 755.

derivatives of (ARTH), 1884, A., 167; 1886, A., 892; (BERKENHEIM), 1892, A., 866.

metallic derivatives of (BRUHL and BILTZ), 1891, A., 656.

Menthone and its derivatives (BERKENHEIM), 1892, A., 867.

d- and *l*- (BECKMANN), 1889, A., 721.

Myristicol (BRUHL), 1888, A., 494.

Pulegone and its oxime (BECKMANN; FLEISSNER), 1891, A., 936.

Puleone and its oxime (BARBIER), 1892, A., 627.

Sobrerol (*pinol hydrate*) (ARMSTRONG), 1890, P., 100; 1891, T., 313;

(ARMSTRONG and POPE), 1891, T., 315; (WALLACH), 1891, A., 218.

Sobrerone (*pinol*) and its derivatives (ARMSTRONG), 1890, P., 100;

1891, P., 314; (WALLACH and OTTO), 1890, A., 169.

and its derivatives, oxidation of (WALLACH), 1891, A., 218.

tribromide (WALLACH), 1891, A., 218.

glycol (*pinol glycol*) and its derivatives (WALLACH), 1891, A., 217; (WALLACH and FRUSTUCK), 1892, A., 998.

diacetate (WALLACH), 1891, A., 217.

ethyl ether (WALLACH and OTTO), 1890, A., 170.

nitroschloride (WALLACH and OTTO), 1890, A., 170.

Sobreronenitrol-amine, -aniline, -benzylamine, - β -naphthylamine and -piperidine (WALLACH and OTTO), 1890, A., 170.

TERPENE OXIDISED COMPOUNDS:—

- Terpin** (BRÜHL), 1888, A., 491;
(WALLACH), 1891, A., 1084.
heat of combustion of (LUGNIN),
1889, A., 328.
formate (LAFONT), 1888, A., 495.
hydrate (WALLACH), 1886, A., 70;
(VULPIUS), 1889, A., 1202.
from eucalyptus oil (MERCK),
1892, A., 1235.
molecular refraction and dis-
persion of, in solution (GLAD-
STONE), 1891, T., 591.
heat of combustion of (LUGNIN),
1889, A., 328.
action of hydriodic acid on
(BERKENHEIM), 1892, A., 867.
reduction of (STOSCHKAREFF),
1892, A., 1351.
- Terpineol** (*terpinol*, *i-terpilenol*,
terpol) (TANRET), 1885, A.,
990; (WALLACH), 1886, A., 70;
(WEBER), 1887, A., 596;
(BOUCHARDAT and VOIRY), 1887,
A., 677; (VOIRY), 1888, A., 962.
synthesis of an inactive (BOU-
CHARDAT and LAFONT), 1886, A.,
890.
ethyl ether (BOUCHARDAT and
VOIRY), 1887, A., 677; 1888, A.,
719, 961.
- Terpineols**, action of acids and
anhydrides on (LAFONT), 1888, A.,
845.
- Terpenes**. See also Oils, vegetable.
- Terra cotta lumber**, preparation of
(ANON.), 1883, A., 896.
- Tetanine** (BRIEGER), 1888, A., 1317.
- Tetano-cannabine** (HAY), 1883, A.,
1156.
- Tetanus** produced by a ptomaine
(BRIEGER), 1887, A., 284.
- Tetrabenzoyl-2:4:6-triamidophenol**
(HINCHBERG and V. UDRINSKY), 1890,
A., 371.
- Tetrabenzoylsodulcitol** (RAYMAN),
1887, A., 907.
- Tetrabenzoyl-erythritol and -levulose**
(SKRAUP), 1889, A., 1152.
- Tetrabenzoylmethane**, preparation of
(PERKIN), 1885, T., 253.
- Tetrabenzoylquinone** (MAQUENNE),
1887, A., 908.
- Tetrabenzylacetonedicarboxylic acid**
(DUNSCHMANN and V. PECHMANN),
1891, A., 674.
- Tetrabenzyl-carbamide and -oxamide**
(HAMMERICH), 1892, A., 1083.
- Tetrabenzyl-m- and -p-phenylene-
diamines** (MELDOLA and COSTE),
1889, T., 600, 602.

- Tetrabenzylphosphonium compounds**
(LEDERMANN), 1888, A., 475.
iodide (LETIS and BLAKE), 1890, A.,
767.
- Tetrabenzylsilicon**, crystalline form of
(POLIS), 1886, A., 619.
- Tetrabenzyltrimethylenetrisulphone**
(CAMPS), 1892, A., 592.
- Tetraisobutyl oxalate** (ANSCHÜTZ),
1890, A., 236.
- Tetraisobutylmethylenediamine**
(EIHENBERG), 1887, A., 1027.
- Tetracetyl-*li*amidoapione** (CIAMICIAN
and SILBER), 1890, A., 1295.
- Tetracetylamidodihydroxyphenyl-
quinol and -quinone** (BAMBERGER),
1884, A., 309.
- Tetracetyl- α -*li*amidophenanthraquinol**
(KLEEMANN and WENSE), 1885, A.,
1240.
- Tetracetyl-*li*amidothymol and its
acetate** (MAZZARA), 1891, A., 188.
- Tetracetyl-*li*- and -*tri*-bromobrazileins**
(SCHALL and DRALLE), 1890, A.,
997.
- Tetracetylenedicarboxylic acid** (V.
BAYER), 1885, A., 1199.
- Tetracetyldiethyldiresorcinol** (HERZIG
and ZEISEL), 1891, A., 75.
- Tetracetylenuxanthic acid** (HERZIG),
1892, A., 1354.
- Tetracetylhydrindigotin** (LIEBER-
MANN), 1892, A., 480.
- Tetracetylhydroxyanthranol** (LIEBER-
MANN), 1888, A., 717.
- Tetracetylmucic acid** (MAQUENNE),
1888, A., 676.
- Tetracetylpenterythritol** (TOLLENS and
WIGAND), 1892, A., 128.
- Tetracetylphenolglucoside** (MICHAEL),
1884, A., 439.
- Tetracetylquinic acid** (ERWIG and
KÖNIG), 1889, A., 991.
- Tetracetylquinol**, 2-chlor-3:6-*li*amido-
(KEHRMANN and TIEHLER), 1890, A.,
243.
- Tetracetylosaniline** (RENOUF), 1883,
A., 981.
- Tetracetylsaccharic acid** (TIEMANN
and HAARMANN), 1886, A., 690.
- Tetracetylsalivic acid** (HAZURA), 1887,
A., 799.
- Tetracresotide** (BARGIONI and SCHIFF),
1888, A., 838.
- Tetradecahydroanthracene** (LUCAS),
1888, A., 1201; 1890, A., 637.
- Tetradecaldoxime and tetradecyl-
amine** (KRAFFT), 1890, A., 1234.
- Tetradecane** (*dihexyl*) (SORABET), 1885,
T., 40; (KRAFFT), 1886, A.,
998.

- Tetradecenoic acid** (*heptylpentylacrylic acid*; $C_{14}H_{26}O_2$) (PERKIN), 1883, T., 48, 62, 66.
- Tetradecenoic aldehyde** ($C_{14}H_{26}O$) (PERKIN), 1883, T., 49.
- Tetradecenyl alcohol** (*heptylpentyl-ethylic alcohol*; $C_{14}H_{28}O$) (PERKIN), 1883, T., 54.
- Tetradecinene** (*methylundecylacetylene*) (KRAFFT and REUTER), 1892, A., 1164.
- Tetradecoic acid** (*heptylpentylacetic acid*; $C_{11}H_{22}O_2$) (PERKIN), 1883, T., 75, 79.
- Tetradecylacetylene** (KRAFFT and REUTER), 1892, A., 1163.
- Tetradecylene**, preparation of (KRAFFT), 1884, A., 571.
- Tetradecylenic bromide** (KRAFFT), 1884, A., 1108.
- Tetradecylic alcohol**, preparation of (KRAFFT), 1883, A., 1075.
- Tetradecylidene** (KRAFFT), 1884, A., 1108.
- Tetradecyl-malonamic and -malonic acids** (HELL and IORDANOFF), 1891, A., 821.
- Tetradymite** from Arizona (GENTH), 1891, A., 154.
from Zsupkó and from Rézbánya (LOCZKA), 1892, A., 1054.
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- Tetraethyl-**. See Tetrethyl-.
- Tetragalactangeddic acid** (O'SULLIVAN), 1891, T., 1069.
- Tetrahidrite** (*fahlore*) (GONNARD), 1885, A., 220.
of Pibram (BABÁNEK), 1886, A., 514.
from the Alaska vein, Colorado (LEIVEN), 1886, A., 21.
and zinc-blende, parallel growth of (BECKE), 1886, A., 207.
- Tetrahydrazoresorufin** (BRUNNER and KRAEMER), 1884, A., 1334.
- Tetrahydroacenaphthene** (BAMBERGER and LODTER), 1888, A., 292; (LIEBERMANN and SPIEGEL), 1889, A., 720.
- Tetrahydro- γ -anthracenecarboxylic acid** (BOHNSTEIN), 1884, A., 330.
- Tetrahydrobenzoic acid** and its derivatives (ASCHAN), 1891, A., 1053.
- Tetrahydrobenzoic acids**, Δ^1 - and Δ^2 - and their derivatives (ASCHAN), 1891, A., 1481.
- Tetrahydrocarbazolecarboxylic acid** (v. BAeyer and TUTTIN), 1889, A., 1181.
- Tetrahydrocinchonic acid**, hydrochloride of (WEIDEL and HAZURA), 1885, A., 561.
- Tetrahydrodibenzylidene-2:6-lutidine** (SCHUSTFR), 1892, A., 1361.
- Tetrahydrodicollidine**, and its derivatives (HANTZSCH), 1883, A., 84.
- Tetrahydrodicoumaric acid** and its salts (DYKON), 1887, T., 68.
- Tetrahydrodicoumarin** (DYKON), 1887 T., 70.
- Tetrahydrodiphenyl** (BAMBERGER and LODTER), 1888, A., 293.
- Tetrahydrodiphenylic dibromide** and its bromo-derivative (BAMBERGER and LODTER), 1888, A., 604.
- Tetrahydrodiquinoline** (FRIEDLANDER and WEINBERG), 1885, A., 990.
- Tetrahydroharmane** (FISCHER), 1889, A., 730.
- Tetrahydro- α -naphthabenzylamine** (BAMBERGER and LODTER), 1887, A., 719.
- Tetrahydro- β -naphthabenzylamine** (BAMBERGER and BOECKMANN), 1887, A., 840.
- Tetrahydronaphthalene** (GRAEBE and GUYE), 1884, A., 608.
derivatives (PERKIN), 1887, P., 92; 1888, T., 1; (KIPPING), 1887, P., 93.
- Tetrahydro- α -naphthalene** (BAMBERGER and BORDT), 1889, A., 717; (BAMBERGER and KITSCHLITZ), 1890, A., 1146.
- Tetrahydro- α -naphthalene, *uv*-amidoazo-** (BAMBERGER and LENGELD), 1890, A., 1305.
- Tetrahydronaphthaleneazo- α -naphthylamine**, and -resorcinol (BAMBERGER and BORDT), 1889, A., 715.
- Tetrahydronaphthaleneazo- β -naphthylamine**, 1:4'-amido- (BAMBERGER and BAMMANN), 1889, A., 783.
- $\beta\beta$ -Tetrahydronaphthalenedicarboxylic acid** (PERKIN), 1888, T., 11, 20.
synthesis of (v. BAeyer and PERKIN), 1884, A., 907.
- $\beta\beta$ -Tetrahydronaphthalenedicarboxylic anhydride** (PERKIN), 1888, T., 12.
- Tetrahydronaphthalenesulphonic acid**, hydrolysis of (FRIEDEL and GRAFIN), 1889, A., 1201.
- Tetrahydronaphthalenesulphonic acids** (GRAEBE and GUYE), 1884, A., 608.
- Tetrahydronaphthalenetetracarboxylic acid** (PERKIN; KIPPING), 1887, P., 93.
- uv*-Tetrahydro- α -naphthamide** (BAMBERGER and BORDT), 1889, A., 716.
- uv*-Tetrahydro- α -naphthaquinol** (BAMBERGER and LENGELD), 1890, A., 1205.
- Tetrahydro- α -naphthaquinoline** and its *p*-amido-derivative (BAMBERGER and STETTENHEIMER), 1891, A., 1258.

- Tetrahydro- β -naphthaquinoline** (BAMBERGER and MÜLLER), 1891, A., 1510.
- ar*-Tetrahydro- α -naphthaquinone** (BAMBERGER and LENGFIELD), 1890, A., 1305.
- Tetrahydro-naphthathionine and naphthindamine** (BAMBERGER), 1890, A., 1300.
- Tetrahydro- α -naphthoic acid** (BAMBERGER and BORDT), 1889, A., 716; (V. BAeyer, SCHÖDER and BENEFELDER), 1892, A., 192.
- ac*-Tetrahydro- α -naphthoic acids** (V. SOWINSKI), 1891, A., 1380.
- Tetrahydro- β -naphthoic acid** (V. SOWINSKI), 1891, A., 1381; (V. BAeyer, SCHÖDER and BENEFELDER), 1892, A., 191.
- ar*-Tetrahydro- α -naphthol** (BAMBERGER and ALTHAUSSE), 1888, A., 900; (BAMBERGER and BORDT), 1890, A., 508.
- amido-** (BAMBERGER and BAMMANN), 1889, A., 783.
- ac*-Tetrahydro- β -naphthol** (BAMBERGER and LODTER), 1890, A., 506.
- ar*-Tetrahydro- β -naphthol** (BAMBERGER and KITSCHOLT), 1890, A., 627, 638.
- Tetrahydro- α -naphthonitrile and - α -naphthothiamide** (BAMBERGER and BORDT), 1889, A., 716.
- Tetrahydro- α -naphthylamine** (BAMBERGER), 1888, A., 159; (BAMBERGER and ALTHAUSSE), 1888, A., 959; (BAMBERGER and BORDT), 1889, A., 715; (BAMBERGER and BAMMANN), 1889, A., 782, 784.
- Tetrahydro- β -naphthylamine and its derivatives** (BAMBERGER), 1888, A., 159; (BAMBERGER and MÜLLER), 1888, A., 599, 712.
- ac*- and *ar*-** (BAMBERGER and KITSCHOLT), 1890, A., 631.
- Tetrahydronaphthylamine compounds, relations between the physiological properties and constitution of** (BAMBERGER and FLEISCH), 1889, A., 737.
- Tetrahydro- β -naphthylaminephenylcarbamide** (BAMBERGER and MÜLLER), 1888, A., 600.
- Tetrahydronaphthylanisole** (KÖNIGS and MAI), 1892, A., 1415.
- ac*-Tetrahydro- β -naphthylbenzylideneamine** (BAMBERGER and KITSCHOLT), 1890, A., 632.
- Tetrahydro- β -naphthylcarbinyllamine tetrahydro- β -naphthylcarbinyll/*di*-thiocarbamate** (BAMBERGER and HELWIG), 1889, A., 1198.
- β -Tetrahydronaphthyl-diethylamines, isomeric** (BAMBERGER and WILLIAMSON), 1889, A., 1000.
- Tetrahydronaphthylene chlorhydrin and oxide** (BAMBERGER and LODTER), 1891, A., 1072.
- ar*-Tetrahydro-1:4-naphthylene/*di*-chloro/*di*-imide** (BAMBERGER), 1890, A., 1300.
- Tetrahydro-1:2-naphthylenediamines, *ac*- and *ar*-** (BAMBERGER and SCHIEFFELIN), 1889, A., 893.
- ar*-Tetrahydro-1:4-naphthylenediamine** (BAMBERGER and SCHIEFFELIN), 1889, A., 893.
- ac*-Tetrahydro-1:4'-naphthylenediamine** (BAMBERGER and ABRAHAM), 1889, A., 782.
- decomposition of, into its optically active components** (BAMBERGER), 1890, A., 511.
- tetrahydroamidonaphthylthiocarbamate** (BAMBERGER and BAMMANN), 1889, A., 783.
- a*-Tetrahydronaphthylethylamine** (BAMBERGER and HELWIG), 1889, A., 891.
- hydrochloride, *p*-nitroso-** (BAMBERGER and HELWIG), 1889, A., 892.
- β -Tetrahydronaphthylethylamines, *ac*- and *ar*-** (BAMBERGER and MÜLLER), 1889, A., 888, 890.
- Tetrahydronaphthylhydrazine, *amido*-** (BAMBERGER and BAMMANN), 1889, A., 784.
- Tetrahydro- α -naphthylhydrazine hydrochloride** (BAMBERGER and BORDT), 1889, A., 717.
- ac*-Tetrahydro- β -naphthyllic acetate, benzoate, sodium carbonate, chloride and phenylcarbamate** (BAMBERGER and LODTER), 1890, A., 507.
- Tetrahydronaphthylphenol** (KÖNIGS), 1891, A., 571; (KÖNIGS and MAI), 1892, A., 1115.
- Tetrahydronaphthylthiocarbamide, *di*-amido-** (BAMBERGER and BAMMANN), 1889, A., 783.
- ac*-Tetrahydro- β -naphthylxanthic acid, sodium salt of** (BAMBERGER and LODTER), 1890, A., 508.
- Tetrahydro-*p*-oxazine** (KNORR), 1889, A., 1218.
- Tetrahydropapaverine and its derivatives** (GOLDSCHMIEDT), 1887, A., 163.
- Tetrahydrophthalic acids, Δ^1 -, Δ^2 -, Δ^3 -, and Δ^4 , *cis*trans (V. BAeyer), 1890, A., 1279; 1892, A., 1216.**

- Tetrahydropthalic anhydrides**, Δ^1 , Δ^2 , and Δ^2 - α - β - γ - δ (v. BAeyer), 1890, A., 1280.
- Tetrahydropicoline**, Δ^2 (LIPP), 1887, A., 277; 1892, A., 1243.
- Tetrahydropicolinic acid**, chloro- (OST), 1883, A., 794.
- Tetrahydropinene** (WALLACH and BERKENHEIM), 1892, A., 998.
- Tetrahydropyrazine** (GARZINO), 1892, A., 633.
- Tetrahydropyridine**. See Piperidine.
- Tetrahydropyridylacrylic acid**. See Anhydroecgonine.
- Tetrahydropyrroline**. See Pyrrolidine.
- Tetrahydroquinaldine**. See 2'-Methyl-tetrahydroquinoline.
- Tetrahydro-*p*-quinanisoil**. See 3-Methoxytetrahydroquinoline.
- Tetrahydroquinazoline**, thio- (BUSCH), 1892, A., 1496.
- Tetrahydroquininic acid** (SRPEK), 1890, A., 177.
- Tetrahydroquinoline** (HOFFMANN and KOENIGS), 1883, A., 1143.
from crude quinoline (OESCHNER DE CONINCK), 1883, A., 739.
spectrum of (HARTLEY), 1885, T., 731.
action of bromine on (HOFFMANN and KOENIGS), 1883, A., 1145.
oxidation of (HOFFMANN and KOENIGS), 1883, A., 1144; (LELLMANN and REUSCH), 1889, A., 905; (TAFEL), 1892, A., 1104.
conversion of, into isatin (SCHOTTEN), 1891, A., 722.
colouring matters from (LELLMANN and BOYE), 1890, A., 1005.
derivatives (HOFFMANN and KOENIGS), 1883, A., 1143.
derivatives, oxidation of (SCHOTTEN and SCHLÖMANN), 1892, A., 355.
benzyl derivatives of (LELLMANN and PEKRUN), 1891, A., 88.
homologues of (BAMBERGER and WILZ), 1891, A., 1253.
hydrochloride, spectrum of (HARTLEY), 1885, T., 735.
methochloride (OSTERMAYER), 1885, A., 672.
- Tetrahydroquinoline**, *p*-amido- (ZIEGLER), 1883, A., 609.
d-nitro- (SIMON-THOMAS), 1892, A., 726.
p-mono- and *di*-nitroso- (ZIEGLER), 1888, A., 610.
- Tetrahydroquinoline-2-carboxylic acid** (FISCHER and KÖRNER), 1884, A., 1197; (LELLMANN and ALT), 1887, A., 503.
- Tetrahydroquinolinedimethylaniline-thiosulphonic indamine** (LELLMANN and BOYE), 1890, A., 1006.
- Tetrahydroquinoline-4-sulphonic acid** (LELLMANN and LANGE), 1888, A., 296.
- Tetrahydroquinolylcarbamide**, and its *d*-nitro-derivative (SIMON-THOMAS), 1892, A., 725.
- Tetrahydroretene** (BAMBERGER and LODTER), 1888, A., 292.
- Tetrahydroterephthalic acid**, Δ^1 - (v. BAeyer), 1887, A., 370.
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- Tetrahydroterephthalic acid hydr-iodide**, Δ^2 - α - β - γ - δ (v. BAeyer and HERB), 1890, A., 1134.
- Tetrahydroterephthalic acids** (v. BAeyer), 1889, A., 1176, 1178.
- Tetrahydro- α -thiophenecarboxylic acid** and its salts (ERNST), 1887, A., 471.
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- Tetrahydrothiophen-2:5-dicarboxylic acid** (ERNST), 1887, A., 237.
- Tetrahydroxyisocamylidenephosphonium iodide** (DE GIRARD), 1884, A., 1119.
- Tetrahydroxyanthraquinoline** (GRAEBE and PHILIPS), 1891, A., 1240.
- Tetrahydroxyanthraquinone**, boiling point of (SCHWEITZER), 1891, A., 1240.
(*rufoptin*) (NÜLTING), 1883, A., 65.
- 1:2:1':4'-Tetrahydroxyanthraquinone** (*quinizarin*; *alizarin-bordeaux*) and its derivatives (LIEBERMANN and WENSE), 1887, A., 593; (SCHMIDT; GATTERMANN), 1891, A., 935.
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- 1:3:2':4'-Tetrahydroxyanthraquinone** (*anthrachrysone*) (NOAH), 1886, A., 556.
- Tetrahydroxyanthraquinones** (α - and β -*oxyanthragallols*) (NOAH), 1887, A., 56.
- Tetrahydroxyaurindicarboxylic acid** (CARO), 1892, A., 1469.
- 1:2:3:4-Tetrahydroxybenzene**. See Apionol.

- 1 2 3:5-Tetrahydroxybenzene diethyl ether. See Diethoxydihydroxybenzene.
- 1:2:4:5-Tetrahydroxybenzene (LOEWY), 1886, A., 1028; (NIETZKI and SCHMIDT), 1888, A., 1182; (BONIGER), 1889, A., 878.
- amido-, hydrochloride (NIETZKI and SCHMIDT), 1889, A., 969.
- N*-amido-, and its derivatives (NIETZKI and BENCKISER), 1885, A., 780.
- nitramido- (NIETZKI), 1884, A., 58.
- Tetrahydroxybenzophenone and its derivatives (GRAEBE and EICHENGRUN), 1892, A., 1225.
- Tetrahydroxybutanetricarboxylic acid (DULL), 1891, A., 547.
- Tetrahydroxydiphenyl. See Diquinol and Diresorcinol.
- Tetrahydroxydiphenylmethane (BARTH and SCHREDER), 1883, A., 59.
- (methylenebiresorcinol) (CARO), 1892, A., 856.
- Tetrahydroxydiphthalyl (GOLDSCHMIEDT and EGGER), 1891, A., 1372.
- Tetrahydroxyditolyl (BRUNNER), 1889, A., 997; (DENINGER), 1890, A., 39.
- Tetrahydroxyethylidenephosphonium compounds (MESSINGER and ENGEL), 1888, A., 442.
- iodide (DE GIRARD), 1884, A., 1119.
- Tetrahydroxyoctolactone (BULITSCH), 1888, A., 450.
- Tetrahydroxypropylenephosphonium compounds (MESSINGER and ENGEL), 1888, A., 442.
- Tetrahydroxyquinone, formula of (NIETZKI and KEHRMANN), 1888, A., 263.
- action of *o*-phenylenediamine on (KEHRMANN), 1890, A., 1265.
- salts of (NIETZKI and BENCKISER), 1885, A., 780.
- Tetrahydroxyquinoneanilide (NIETZKI and SCHMIDT), 1888, A., 944.
- Tetrahydroxystearic acid. See Sativic acid.
- Tetrahydroxyterephthalic acid (LOEWY), 1886, A., 1028.
- Tetrahydroxytoluene, *p*-nitro- (KEHRMANN and BRASCH), 1889, A., 970.
- Tetrahydroxyvaleric acid (*arabonic acid*) (BAUER), 1885, A., 500; 1886, A., 869; (KILIANI), 1887, A., 230.
- phenylhydrazide of (FISCHER), 1890, A., 1398.
- (*ribonic acid*) (FISCHER and PILOTY), 1892, A., 438.
- Tetraketohexamethylene, *tribromo-* (LANDOLT), 1892, A., 836.
- tetrabromo-* (NEF), 1890, A., 1272.
- trichloro-*, hydrate (LANDOLT), 1892, A., 835.
- tetrachloro-* (NEF), 1890, A., 1271; (LANDOLT), 1892, A., 836.
- dichlorodibromo-* (NEF), 1890, A., 1271.
- Tetraketopiperazines, attempts to prepare (BISCHOFF and NASTVOGEL), 1890, A., 1164.
- Tetralkylammonium iodides, formation of (H. and A. MALBOT), 1892, A., 133.
- action of potassium on (THOMPSON and CUNDALL), 1888, T., 761; P., 79.
- Tetramethoxydiamidodiphenyl and its derivatives (BAESSLER), 1884, A., 1330; 1887, A., 364.
- Tetramethoxybenzene (WILL), 1888, A., 458.
- Tetramethoxybenzhydrotricarboxylic acid (*tetramethoxydicarboxydiphenylglycollic acid*) (GOLDSCHMIEDT and EGGER), 1891, A., 1372.
- Tetramethoxydihydrodiphthalyl (GOLDSCHMIEDT and EGGER), 1891, A., 1373.
- Tetramethoxy-diphthalyl and -diphthalylidicarboxylic acid (GOLDSCHMIEDT and EGGER), 1891, A., 1371.
- Tetramethoxyditolyl (BRUNNER), 1889, A., 997.
- Tetramethoxyindigodicarboxylic acid (LIEBERMANN), 1886, A., 468.
- Tetramethoxyquinhydrone, *tetrachloro-* (KEHRMANN), 1891, A., 905.
- Tetramethylaldine. See Tetramethylpyrazine.
- Tetramethylallylalkine. See Hydroxytetramethylpropylenediamine.
- Tetramethylisallylene (VAUBEL), 1891, A., 997.
- Tetramethylamidoarsenobenzene (MICHAELIS and RABINERSON), 1892, A., 1321.
- Tetramethylamidoazobenzene (*dimethylamidobenzenecaradimethylaniline*) (NOLTING and KOHN), 1885, A., 386; (BARRIER and VIGNON), 1888, A., 54.
- Tetramethylamido benzhydrol (*tetramethyldiamidodiphenylcarbinol*), condensation of, with xyldine, mesidine, ψ -cumidine, isoduridine and prehnidine (NOLTING), 1892, A., 188.
- derivatives of (NATHANSON and MULLER), 1889, A., 1189.

- Tetramethyl/iamidobenzophenone** (ZIEGLER), 1887, A., 674.
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- Tetramethyl/iamidobenzophenone** (NATHANSON and MÜLLER), 1889, A., 1189.
- Tetramethyl/iamidochlorethoxyquinone** (KEHRMANN), 1891, A., 904.
- Tetramethyl/iamido/ichloronitrotriphenylmethane** (KOCK), 1887, A., 837.
- Tetramethyl/iamidodinaphthylphenylmethane** (*phenyltetramethyl/iamidodinaphthylmethane*) (FRIEDLÄNDER and WELMANS), 1889, A., 151.
- Tetramethyl/iamidodiphenyl** (*tetramethylbenzidine*) (MICHLER and PATTINSON), 1884, A., 747; (GIRAUD), 1890, A., 138; (LAUTH), 1891, A., 457.
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- Tetramethyl/iamidodiphenylamine**, oxidation of (BERNTSESEN), 1884, A., 597.
- Tetramethyl/iamidodiphenylcarbinol**. See **Tetramethyl/iamidobenzhydrol**.
- Tetramethyl/iamidodiphenylethane** (HEUMANN and WIERNIK), 1887, A., 674; (TRÜGER), 1888, A., 287.
- Tetramethyl/iamidodiphenylheptane** (KRAFFT), 1887, A., 253.
- Tetramethyl/iamidodiphenylmethane** (WIERNIK), 1889, A., 130; (VAN ROMBURGH), 1889, A., 146.
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- Tetramethyl/iamidodiphenylmethoxymethylquinolylmethane** (NÖLTING), 1892, A., 190.
- Tetramethyl/iamidodiphenylmethoxytolylmethane** (NÖLTING), 1892, A., 190.
- Tetramethyldiamidodiphenylphenylamidonaphthylcarbinol** (*Victoria blue*) (NATHANSON and MÜLLER), 1889, A., 1190.
- Tetramethyldiamidodiphenylphenylmethylamidonaphthylcarbinol** and its derivatives (NATHANSON and MÜLLER), 1889, A., 1191.
- Tetramethyl/iamidodiphenylquinolylmethane** (NÖLTING), 1892, A., 190.
- Tetramethyl/iamidodiphenylthienylmethane** (LEVI), 1887, A., 481.
- Tetramethyl/iamidodiphenyltolylmethane**, *p*-nitro- (NÖLTING), 1891, A., 727.
- Tetramethyl/iamidodiphenyltolylmethanes** and their derivatives (NÖLTING), 1892, A., 187.
- Tetramethyl/iamidoditolynitrophenylmethane** (KOCK), 1887, A., 837.
- Tetramethyl/iamidophenylmethane**, action of sulphur on (WALLACH), 1891, A., 189.
- Tetramethyl/iamidoquinone**, preparation of (KEHRMANN), 1890, A., 757.
- Tetramethyl/iamidothiobenzophenone** and its derivatives (BAITHER), 1887, A., 816; 1888, A., 289.
- Tetramethyl/iamidotoluene** (*tetramethyltolylenediamine*) (NIEMENTOWSKI), 1887, A., 938.
- Tetramethyl/iamidotriphenylethane** (DOEBNER and PETSCHOW), 1888, A., 288.
- Tetramethyldiamidotriphenylmethane**. See **Leucomalachite-green**.
- Tetramethyl/iamidotriphenylmethane**, derivatives of (NATHANSON and MÜLLER), 1889, A., 1189.
- Tetramethylammonium salts**, action of heat on (LAWSON and COLLIE), 1888, T., 624; P., 61.
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- Tetramethylanthracene** (FRIEDEL and CRAFTS), 1887, A., 1102.
- Tetramethylapionol** (CIAMICIAN and SILBER), 1890, A., 36.
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- Tetramethylazylane** (NOLTING and BAUMANN), 1885, A., 385; (NOLTING and KOHN), 1885, A., 386.
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- Tetramethylbenzamide** (HARRIS), 1890, A., 158.
- Tetramethylbenzamidobenzophenone**, action of nitrous acid on (HERZBERG and POLONOWSKY), 1892, A., 185.
- Tetramethylbenzene** (v. HOFMANN), 1884, A., 1320.
amido- (*duruline*) [b.p. 253°] (v. HOFMANN), 1884, A., 1320.
- 1:2:3 4-Tetramethylbenzene. See Pich-nitene.
- 5-amido- (*prichnidine*) [b.p. 260°] (LIMPACH), 1888, A., 164.
- 1:2:3:5-Tetramethylbenzene. See *iso* Durene.
- 4 amido- (*isoduridine*) (NOLTING and BAUMANN), 1885, A., 384, 893.
- 1 2:4:5-Tetramethylbenzene. See Dui-ene.
- Tetramethylbenzenecarboxylic acid**. See Tetramethylbenzoic acid.
- Tetramethylbenzenethio-carbamide and -carbimide** (v. HOFMANN), 1884, A., 1320.
- Tetramethylbenzidine**. See Tetramethyldiamidodiphenyl.
- 1:2:3:4-Tetramethylbenzoic acid (GOLTSCHALK), 1888, A., 261.
- 1 2:4:5-Tetramethylbenzoic acid (*dur-cinecarboxylic acid*) (JACOBSEN), 1889, A., 877.
- Tetramethylbenzoic acids**, 1:2:3 4- and 1 2:3 5- (CLAUS and FOECKING), 1888, A., 276.
- Tetramethylbenzophenone** (*benzoyliso-durine*) (ESSNER and GOSSIN), 1885, A., 253.
- Tetramethylbenzoylbenzoic acid** (*o-duroylbenzoic acid*) (FRIEDEL and CRAFTS), 1889, A., 242.
- Tetramethylbrazilein** (SCHALL and DRALLE), 1888, A., 295; 1889, A., 55.
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- Tetramethylbutylcarbinammonium iodide**. See Trimethylhexenylammonium iodide.
- Tetramethyldiethyl-p-phenylenediammonium diiodide** (LIPPMANN and FLEISSNER), 1884, A., 178.
- Tetramethyldihydroanthracene and its derivatives** (ANSCHUTZ and ROMIG), 1885, A., 768.
- Tetramethyldihydropyridine** (CIAMICIAN and ANDERLINI), 1889, A., 58.
- Tetramethyldihydropyridine**, action of methylic iodide on (ANDERLINI), 1890, A., 67.
- Tetramethyldimethylenedisulphone** (AUTENRIETH), 1887, A., 463.
- Tetramethyldiphenylene** (*tetramethyldiamidodiphenyl*) (REULAND), 1890, A., 167.
- Tetramethyldipicolyl methiodide** (LADENBURG), 1889, A., 161.
- Tetramethyldiquinolylene**. See Tetramethylquinolylquinoline.
- Tetramethyldiquinoxaline** (NIEZKI and MULLER), 1889, A., 601.
- Tetramethylenaldehyde** (COLMAN and PERKIN), 1887, T., 238.
- Tetramethylene ethyl ketone** (PERKIN and SINCLAIR), 1892, T., 51.
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- Tetramethylene ethyl ketoxime** (PERKIN and SINCLAIR), 1892, T., 51.
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- Tetramethylene methyl ketone** (COLMAN and PERKIN), 1887, T., 238; P., 12; (PERKIN and SINCLAIR), 1892, T., 47.
- Tetramethylene methyl ketoxime** (PERKIN and SINCLAIR), 1892, T., 49.
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- Tetramethylene-carbanilide and -carboxylamide** (FREUND and GUDLMAN), 1888, A., 1271.
- Tetramethylenecarboxylic acid** (*p-nitro-nic acid*) and its salts (PERKIN), 1883, A., 1084; 1887, T., 8.
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 α -bromo- (PERKIN and SINCLAIR), 1892, T., 41.
- Tetramethylenecarboxylic anhydride and nitile** (FREUND and GUDLMAN), 1888, A., 1271.
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- Tetramethylenediamine** (*putrescine*) and its derivatives (LADENBURG), 1886, A., 528; (V. UDRÁNSZKY and BAUMANN), 1889, A., 33, 1024.
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- Tetramethylene-1:1-dicarboxylic acid** and its salts (PERKIN), 1883, A., 1084; 1887, T., 4.
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- Tetramethylene-1:2-dicarboxylic acid** and anhydride (PERKIN), 1886, A., 934; 1887, T., 22.
- Tetramethylenedicarboxylic acids** (MARKOWNIKOFF), 1892, A., 1306.
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- Tetramethylenedinitramine** (DEKKERS), 1891, A., 164.
- Tetramethylene-ethylcarbinol** and -ethylcarbinyl acetate (PERKIN and SINCLAIR), 1892, T., 54, 56.
- Tetramethylenemethylamine** (FREUND and GUDEMAN), 1888, A., 1271.
- Tetramethylenemethyl-carbamide** and -thiocarbamide (FREUND and GUDEMAN), 1888, A., 1271.
- Tetramethylenemethylcarbinol** (PERKIN and SINCLAIR), 1892, T., 50.
- Tetramethylenephénylcarbinol** and its polymeride (PERKIN and SINCLAIR), 1892, T., 62, 65.
- Tetramethylenepropyl bromide** and iodide (PERKIN and SINCLAIR), 1892, T., 57.
- Tetramethylene-1:1:2:2-tetracarboxylic acid** (PERKIN), 1886, A., 934; 1887, T., 17, 21.
- Tetramethylenic dibromide** (GUSTAVSON and DEMJANOFF), 1889, A., 950.
- Tetramethylenylamine**. See Tetramethylenemethylamine.
- Tetramethylethylene** (*heptylene*), action of chlorine on (CHUPOTSKY), 1885, A., 645; (CHUPOTSKY and MARIUTZ), 1890, A., 727.
- Tetramethylethylene oxide** (*heptylene oxide*) (ELTEKOFF), 1883, A., 567.
- α -Tetramethylethylenedipyrroline** (*tetramethylidipyrrolylethylene*) (PAAL and SCHNEIDER), 1887, A., 273.
- Tetramethylglutaramidine** platinochloride (PINNER), 1891, A., 62.
- Tetramethylglycoluril** (FRANCHIMONT and KLOBBE), 1889, A., 126.
- Tetramethylindamine sulphide**, and thiosulphate (BERNTSEN), 1889, A., 777.
- 2':3':3:4-Tetramethylindole** (DENNSTEITZ), 1889, A., 1209.
- Tetramethylmalonamide** (*dimethylmalondimethylidamide*) (FRANCHIMONT), 1886, A., 449.
- 1:2:3:4-Tetramethylmandelic acid** (CLAUS and FÖHLISCH), 1889, A., 50.
- Tetramethylmandelic acids**, 1:2:3:5- and 1:2:5:6- (CLAUS and FÖCKING), 1888, A., 275.
- 1:2:3:4-Tetramethylphenol**. See Prehnitol.
- 1:2:4:5-Tetramethylphenol**. See Durenol.
- 1:2:3:4-Tetramethylphenyl-5-acetic acid** (CLAUS and FÖHLISCH), 1889, A., 50.
- Tetramethylphenylenediamine** (*prehnitylenediamine*) (TOHL), 1888, A., 535.
 nitroso-, hydrochloride, and its derivatives (WITT), 1885, A., 782.
- Tetramethyl-*o*-phenylenediamine** (*phenylenetetramethylidamine*) (FISCHER), 1892, A., 1474.
- Tetramethyl-*m*-phenylenediamine** (VAN ROMBURGH), 1888, A., 1185.
- Tetramethyl-*p*-phenylenediaminethiosulphonic acid** (BERNTSEN), 1889, A., 777.
- Tetramethylphenylenesaffranine** (ANON.), 1884, A., 539.
- 1:2:3:4-Tetramethylphenylglyoxylic acid** (CLAUS and FÖHLISCH), 1889, A., 50.
- Tetramethylphenylglyoxylic acids**, 1:2:3:5-, and 1:2:4:5- (CLAUS and FÖCKING), 1888, A., 275.
- Tetramethylphenyllutidonecarboxylic acid** (CONRAD and LIMPACH), 1888, A., 851.
- Tetramethylphloroglucinol**, action of hydrochloric acid on (SPITZER), 1890, A., 1407.
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- Tetramethylphosphonium salts**, action of heat on (COLLIE), 1888, T., 636; P., 62.
- Tetramethylpiperidine** (*methylcopellidine*) and its derivatives (DÜRKOPF), 1885, A., 817.
 iodo- (FISCHER), 1884, A., 1290.
- Tetramethylpyrazine** (*methylketine*; *tetramethylaldine*) (OECONOMIDES), 1887, A., 29; (WOLFF), 1887, A., 465; (BRAUN and MEYER), 1888, A., 1093; (BRAUN), 1889, A., 613.

- Tetramethylpyrrolyl-pyrroline** and -pyrrolinecarboxylic acid (MAGNANINI), 1889, A., 409.
- 1:3:1:2'-Tetramethylquinoline** [b.p. 297—300°] (DOEDNER and V. MILLER), 1884, A., 1875.
- Tetramethylquinoline** [b.p. 284°] and its salts (LEW and RIEHM), 1886, A., 721.
- Tetramethylquinolylquinoline** and its derivatives (SCHENSTOPAL), 1887, A., 1120.
- Tetramethylrosamine** (HEUMANN and REY), 1890, A., 157.
- Tetramethylstrychnine dihydroxide** (TAFEL), 1890, A., 1448.
- Tetramethylsuccinic acid** (*hexanedicarboxylic acid*) (AUWERS and MEYER), 1889, A., 1145; 1890, A., 132, 479; (AUWERS and GARDNER), 1891, A., 290.
- Tetramethylsuccinic anhydride** (AUWERS and MEYER), 1890, A., 479.
- Tetramethyl-succinimide** and -succinophenylimide (AUWERS and GARDNER), 1891, A., 290.
- Tetramethylsulphonamide** (BEHREND), 1884, A., 285.
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- Tetramethyltetrahydropyridine**. See Triacetone.
- Tetramethylthioaniline** and its salts (TURSINI), 1884, A., 1141.
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- Tetramethylthiophen** (ZELINSKY), 1888, A., 939.
- Tetramethyltricarballic acid** (BISCHOFF and V. KUILBERG), 1890, A., 747.
- Tetramethyluric acid** (FISCHER), 1881, A., 1310.
- Tetramine-chromic** and -cobalt salts. See Chromammonium under Chromium and Cobaltamine under Cobalt.
- Tetramonocuprammonium bromide**. See Cuprammonium under Copper.
- β -Tetranaphthylcarbamide** (KYM), 1890, A., 994; (KUHN and LANDAU), 1890, A., 1311.
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- β -Tetranaphthyl diamine, thio-** (KYM), 1889, A., 51.
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- Tetranilidonaphthalene** (*tetraphenyl-tetramidonaphthalene*) (FISCHER and HEPP), 1890, A., 911.
- Tetra-p-oxybenzoid** (SCHIFF), 1888, A., 335.
- Tetraphenol**. See Furfuran.
- Tetraphenyl ethylenic haecyanide** (KRAFFT and KOENIG), 1890, A., 1253.
- Tetraphenylaldine**. See Tetraphenylpyrazine.
- Tetraphenyltetramidomethylene-phenylenediamine** (MOORE), 1890, A., 246.
- Tetraphenylazine**. See Tetraphenylpyrazine.
- Tetraphenylcarbamide, thio-** (PASCHKOWETZKY), 1892, A., 165.
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- Tetraphenylcrotonolactone** (*tubular orylepiden*) (JAPP and KLINGEMANN), 1889, P., 137.
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- Tetraphenyl diarsine** (MICHAELIS and SCHULTE), 1883, A., 187.
- Tetraphenyl dihydropyridazine** (*tetraphenyl dihydro-olazine*) (SMITH), 1890, T., 647.
- Tetraphenyl diphosphine** (DORKEN), 1888, A., 833.
- Tetraphenyl diquinoxaline** (NIEZKI and MULLER), 1889, A., 605.
- Tetraphenyl enefurfuran** (JAPP and KLINGEMANN), 1890, P., 32.
- Tetraphenyl enepyrazine** (*tetraphenyl-eneazine*) (JAPP and BURTON), 1887, T., 101.
- Tetraphenyl ethane** (ANSCHUTZ), 1884, A., 326; (ANSCHUTZ and KLING), 1884, A., 1031.
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- Tetraphenyl ethylene**, synthesis of (ZINGLER), 1888, A., 596.
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- Tetraphenyl ethylene dithiosemithiocarbazine** (BURKHARD), 1890, A., 251.
- Tetraphenyl-1-ethylpyrroline** (FEHRLIN), 1889, A., 623.
- Tetraphenylfurfuran** (*lepiden*), constitution of (MAGNANINI and ANGELI), 1889, A., 729.
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- Tetraphenylglycocine** (JAPP and CLEMENSHAW), 1887, T., 553; P., 31.
- Tetraphenyl silicate** (MARTINI and WEBER), 1883, A., 983.

- Tetraphenyl-1-methylpyrrolone** (FEHLIN), 1889, A., 623.
- Tetraphenyl-1-methylpyrrolone** (KLINGEMANN and LAYCOCK), 1890, P., 149; 1891, T., 149.
- Tetraphenylpyrazine** (*ditoluenearotide*; *tetraphenylaldine*) (JAPP and WILSON), 1886, T., 829; (JAPP and BURTON), 1887, T., 101; (BRAUN and MEYER), 1888, A., 700.
- conversion of, into diphenanthrylene-azotide (JAPP and BURTON), 1886, T., 843; P., 236.
- Tetraphenylpyrrolidone** (KLINGEMANN and LAYCOCK), 1891, T., 146.
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- tetranitro-* (FEHLIN), 1889, A., 623.
- 1:2:3:5-Tetraphenylpyrrolone** (SMITH), 1890, T., 646.
- 3:3:4:5-Tetraphenylpyrrolone** and its reduction (KLINGEMANN and LAYCOCK), 1891, T., 144.
- Tetraphenylsilicon** and its *tetranitro*-derivative (POLIS), 1886, A., 618.
- Tetraphenylsuccinic acid** (BIKEL), 1889, A., 999.
- Tetraphenylsuccinonitrile** (AUWERS and MEYER), 1889, A., 833.
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 molecular, of niobium pentoxide and niobic hydride (KÜHN and NILSON), 1887, A., 706.
 of three modifications of anhydrous potassium copper sulphate (PICKERING), 1885, T., 102; 1886, T., 14.
 of silver iodide, and its alloys with cuprous and lead iodides (BELLATI and ROMANESCU), 1883, A., 271.
 of sulphuric monochloride (OGIER), 1883, A., 642.
 of tellurium (FABRE), 1888, A., 332; 1889, A., 203.
 of thorium (NILSON), 1883, A., 553, 649.
 of uranium (BLÜMCKE), 1885, A., 8, 625.
 of solid carbon compounds (HESS), 1889, A., 92.
 of solid carbon compounds and their chemical composition, relation between (KOPF), 1886, A., 587.
 of lauric and myristic acids (STOLMANN and WILSING), 1886, A., 1177.
Latent heat, relation of F.M.F. to (GORE), 1892, A., 257.
Latent heat of fusion (EHRHARDT), 1885, A., 625.
 relation between solubility and (CARNELLEY and THOMSON), 1888, T., 782; P., 80; (WALKER), 1890, A., 686.
 determination of, from the reduction of the freezing point (RIJCKMAN), 1889, A., 606.
 of iodine chlorides (STORTENBEKER), 1892, A., 1387.
 of nitric peroxide (RAMSAY), 1890, T., 593.
 of aluminium (PRONCHON), 1892, A., 1281.
 of lauric and myristic acids (STOLMANN and WILSING), 1886, A., 1177.
Heat of solidification of hypophosphoric acid (JOLY), 1886, A., 408.

THERMOCHEMISTRY:—*Heat of formation*=*f.*; *of transformation*=*t.*; *of decomposition*=*d.*; *of dissociation*=*dis.*; *of combination*=*ch.*; *of combustion*=*c.*; *of neutralisation*=*n.*; *of substitution*=*sh.*; *of hydration*=*h.*

Latent heat of vaporisation (GERLACH), 1889, A., 813.

relation of specific inductive capacity to (ORACH), 1892, A., 258.

determination of, by means of the steam calorimeter (WIRZ), 1890, A., 1040.

of liquefied gases, measurement of (CHAPPUIS), 1887, A., 627; 1888, A., 733; (MATHIAS), 1888, A., 773.

of liquids (SCHALL), 1884, A., 551; 1885, A., 113.

of hydrofluoric acid (GUNTZ), 1884, A., 511.

of sulphuric monochloride (OGIER), 1883, A., 642.

of homologous carbon compounds (SCHIFF), 1887, A., 9.

of acetic acid (RAMSAY and YOUNG), 1886, T., 790; P., 225.

of ethylether (RAMSAY and YOUNG), 1887, A., 320.

of ethylene oxide (BERTHELOT), 1883, A., 275.

of ethylic alcohol (RAMSAY and YOUNG), 1885, A., 1178.

of a solution (JAGER), 1892, A., 1382.

Heat of formation (BERTHELOT), 1885, A., 868; (COLLEY), 1890, A., 681.

(*thermodynamic equivalents*) (DE LANDERO and PRIETO), 1887, A., 99.

and the law of thermal substitution constants (TOMMASI), 1883, A., 143; 1884, A., 883; 1885, A., 8; (BERTHELOT), 1884, A., 702.

Heat of transformation in double decomposition (VAN'T HOFF and LEICHER), 1889, A., 930.

Heat of chemical combination, influence of temperature on (PICKERING), 1886, T., 260; P., 161.

Heat of combustion (GERLACH), 1889, A., 814.

Heat of neutralisation (PICKERING), 1887, T., 593; P., 77; 1888, P., 52; (ARRHENIUS), 1891, A., 1406.

Thermochemical data for acetaldehyde and its polymerides (*c.*) (BRUHL), 1891, A., 633.

for acetaldehyde into paracetaldehyde (*t.*) (FRANCHIMONT), 1883, A., 454.

for metacetaldehyde (*c.*) (LUGININ), 1889, A., 668.

Thermochemical data for acetic acid (*c.*) (JAHN), 1890, A., 99; (*c.* and *f.*) (BERTHELOT and MATIGNON), 1892, A., 1139.

for acetic acid, mercury salt of (*f.*) (BERTHELOT), 1881, A., 706.

for acetocarbamide (*c.* and *f.*) (MATIGNON), 1891, A., 1448.

for acids of the aromatic series (*n.*) (BERTHELOT), 1886, A., 8; (*c.* and *f.*) (STOHMANN, KLEBER and LANGBEIN), 1889, A., 1096.

for acids of the aromatic series, influence of the nitrosyl amide groups on the (*n.*) (ALEXIEFF and WERNER), 1890, A., 439.

for acids of the fatty series (*c.*) (STOHMANN), 1885, A., 857; 1886, A., 296; (STOHMANN and RODATZ), 1885, A., 1177; 1886, A., 296; (LUGININ), 1886, A., 757; (STOHMANN and LANGBEIN), 1891, A., 11.

for acids of the oxalic series (*c.* and *f.*) (STOHMANN, KLEBER and LANGBEIN), 1889, A., 1097; (OSSIPOFF), 1890, A., 680.

for acids of the oxalic and lactic series (*c.*) (LUGININ), 1889, A., 5.

for homologous and isomeric acids (*n.*) (GAL and WERNER), 1887, A., 95.

for solid dibasic acids, relations of, to those of the gaseous hydrocarbons (*c.*) (STOHMANN), 1891, A., 252.

for dibasic organic acids (*n.*) (MANSOT), 1891, A., 968; 1892, A., 395; (*c.* and *f.*) (STOHMANN and KLEBER), 1892, A., 1011.

for albuminoids (*c.*) (STOHMANN), 1885, A., 857.

for alcohols of the fatty series (*c.*) (STOHMANN), 1886, A., 295.

for the polybasic alcohols (*c.* and *f.*) (STOHMANN and LANGBEIN), 1892, A., 763.

for the alkaline earths (*h.*) (THOMSEN), 1884, A., 250.

for alkalis (*h.*) (THOMSEN), 1884, A., 250; (*n.*) (MULLER), 1889, A., 811.

for alkyl oxides (*f.*) (DE FORCRAND), 1884, A., 112, 516; 1885, A., 1102; 1887, A., 204, 318, 319.

THERMOCHEMISTRY:—*Heat of formation*=*f.*; *of transformation*=*t.*; *of decomposition*=*d.*; *of dissociation*=*dis.*; *of combination*=*cb.*; *of combustion*=*c.*; *of neutralisation*=*n.*; *of substitution*=*sb.*; *of hydration*=*h.*

Thermochemical data for alkylene oxides (*c.*) (BRUHL), 1891, A., 633.

for allantoin, alloxan and alloxantin (*c.* and *f.*) (MATIGNON), 1891, A., 1448.

for the compounds of aluminium bromide with hydrocarbons (*f.*) (GUSTAVSON), 1885, A., 472.

for aluminium fluoride (*n.*) (PETERSEN), 1890, A., 680.

for aluminium oxide and hydroxide (*f.*) (BAILLE and FÉRY), 1890, A., 110.

for amides (*c.* and *f.*) (BERTHELOT and FOGH), 1890, A., 1359.

for aromatic amines (*n.*) (VIGNON), 1888, A., 1013.

for fatty amines (*c.*) (MULLER), 1886, A., 409; (*n.*) (MULLER), 1889, A., 811.

for some salts of the fatty amines in dilute solutions (*f.*) (MULLER), 1885, A., 716.

for ammonia with silicon tetrafluoride (*cb.*) (TRUCHOT), 1885, A., 626.

for ammonium sulphite and disulphite (*f.*) (DE FONCRAUD), 1885, A., 471.

for aniline (*f.*) (PETIT) 1888, A., 773.

for aniline salts (*f.* and *n.*) (BERTHELOT), 1890, A., 1361.

for aniline dichromate (*f.*) (GIRARD and L'HÔTE), 1889, A., 562.

for antimony halogen compounds and oxides (*f.*) (THOMSEN), 1883, A., 544; (GUNTZ), 1881, A., 707, 884, 1246; 1885, A., 1101.

for antimony hydride (*f.*) (BERTHELOT and PETIT), 1889, A., 666.

for allotropic forms of arsenic (*cb.*) (BERTHELOT and ENGEL), 1890, A., 679.

for arsenic halogen compounds (*f.*) (THOMSEN), 1883, A., 544; (GUNTZ), 1885, A., 1101.

for asparagin (*c.*) (STOHMANN), 1885, A., 857.

for aspartic acid (*c.* and *f.*) (BERTHELOT and ANDRÉ), 1890, A., 936; (BERTHELOT), 1891, A., 967.

for atropic acid (*c.*) (OSSIPOFF), 1889, A., 460.

Thermochemical data for azoimide (*n.* and *f.*) (BERTHELOT and MATIGNON), 1892, A., 261; (*f.*) (BACH), 1892, A., 933.

for bases where dissociation cannot take place (*n.*) (VAN DEVENTER and REICHER), 1890, A., 553.

for organic bases in relation to Berthollet's laws (*n.*) (BERTHELOT), 1890, A., 1363; (COLSON), 1890, A., 1367, 1368; 1891, A., 377.

for benzene (*c.* and *f.*) (STOHMANN, RODATZ and HERZBERG), 1886, A., 409; (THOMSEN), 1886, A., 842; (STOHMANN, KLEBER and LANGBEIN), 1889, A., 1042; (*c.*) (STOHMANN), 1886, A., 842; (BRUHL), 1891, A., 633.

for benzene and its molecular refraction compared with those of dipropargyl (*c.*) (BRUHL), 1892, A., 1436.

for benzene to the acetic series (*t.*) (BERTHELOT and RECOURA), 1887, A., 1011.

for the solid isomeride of benzene (*c.*) (LUGININ), 1888, A., 893.

for benzoic acid (*c.*) (STOHMANN), 1885, A., 857; (BERTHELOT and RECOURA; BERTHELOT and LUGININ), 1887, A., 762; (*c.* and *f.*) (STOHMANN, KLEBER and LANGBEIN), 1889, A., 1096.

for benzoyl compounds (*c.*) (STOHMANN, RODATZ and HERZBERG), 1887, A., 878; 1888, A., 333.

for benzylamine (*f.*) (PETIT), 1888, A., 1239.

for beryllium fluoride (*n.*) (PETERSEN), 1890, A., 680.

for bismuth halogen compounds and oxides (*f.*) (THOMSEN), 1883, A., 544.

for borneols (*c.*) (LUGININ), 1889, A., 328.

for bromides by substitution (*f.*) (BERTHELOT and WERNER), 1884, A., 883.

for bromine (*sb.*) (BERTHELOT and WERNER), 1884, A., 883; 1885, A., 627.

for bromine and iodine with magnesium (*cb.*) (BEKEOFF), 1892, A., 762.

for cadmium oxide (*n.*) (THOMSEN), 1884, A., 263.

THERMOCHEMISTRY:—*Heat of formation*=*f.*; of *transformation*=*t.*; of *decomposition*=*d.*; of *dissociation*=*dis.*; of *combination*=*cb.*; of *combustion*=*c.*; of *neutralisation*=*n.*; of *substitution*=*s.*; of *hydration*=*h.*

Thermochemical data for the camphene series (c. and f.) (BERTHELOT and MATIGNON), 1891, A., 1818.

for camphoric acids (*n.*) (BERTHELOT), 1885, A., 1178; (GAL and WERNER), 1887, A., 205; (*c.*) (LUGININ), 1889, A., 6; (*c.* and *f.*) (STOHMANN and KLEBER), 1892, A., 1041.

for camphols (*c.*) (LUGININ), 1889, A., 328.

for cyano- and nitro-camphors (*f. c.* and *n.*) (BERTHELOT and PETIT), 1889, A., 1098.

for carbamide (*c.*) (STOHMANN), 1885, A., 857; (*c.* and *f.*) (BERTHELOT and PETIT), 1890, A., 206.

for the carbohydrates (*c.*) (STOHMANN), 1885, A., 857; (*c.* and *f.*) (BERTHELOT and VIEILLE), 1886, A., 757; (STOHMANN and LANGBEIN), 1892, A., 763.

for carbon (*c.*) (BERTHELOT and PETIT), 1889, A., 811.

for carbon with oxygen (*cb.*) (BOILLOT), 1884, A., 141.

for carbon compounds (*f.*) (THOMSEN), 1883, A., 543; (BRUHL), 1887, A., 423; (*c.*) (MULLER-EITZBACH), 1883, A., 1044; (BERTHELOT and VIEILLE), 1885, A., 326; (LUGININ), 1885, A., 327; (DIKONOFF), 1886, A., 115; (THOMSEN), 1887, A., 761; (STOHMANN), 1887, A., 878, 1011; 1888, A., 1013; 1891, A., 251; (OSHIPOFF), 1889, A., 5.

for carbon compounds and their relation to their constitution (*c.*) (DIEFFENBACH), 1890, A., 1206; (THOMSEN), 1891, A., 632.

for carbon tetrachloride and monoxide (*f.*) (THOMSEN), 1888, A., 544.

for carbon disulphide (*c.* and *f.*) (THOMSEN), 1884, A., 249; (BERTHELOT and MATIGNON), 1890, A., 1361.

for carbonic ethers (*c.*) (LUGININ), 1884, A., 547.

for carbonyl chloride (*f.*) (THOMSEN), 1884, A., 250.

for carbonyl sulphide (*c.* and *f.*) (THOMSEN), 1884, A., 249.

Thermochemical data for alkaline carbonates in very dilute solution (f.) (MULLER), 1889, A., 810.

for charcoal (*c.*) (BERTHELOT and VIEILLE), 1885, A., 326.

for chlorides and sulphates in aqueous solution, relation between (*f.*) (FAY), 1888, A., 401.

for hydrated metallic chlorides (*f.*) (SABATIER), 1889, A., 1043.

for perchloric acid and its salts (*f. f.* and *n.*) (BERTHELOT), 1883, A., 8.

for organic chlorine compounds (*c.* and *f.*) (BERTHELOT and MATIGNON), 1891, A., 1311.

for chromic acid and its salts (*f.*) (BERTHELOT), 1883, A., 642.

for chromous into chromic chloride (*t.*) (RECOURA), 1885, A., 1102.

for the cinnamic acids (*c.*) (OSHIPOFF), 1889, A., 460; (STOHMANN, KLEBER and LANGBEIN), 1889, A., 1096; (LIEBERMANN), 1892, A., 469.

for citraconic acid (*n.*) (GAL and WERNER), 1887, A., 205; (*c.*) (LUGININ), 1888, A., 893.

for citric acid (*c.*) (STOHMANN), 1885, A., 1857; (*n.*) (GAL and WERNER), 1887, A., 205; (MANSON), 1892, A., 763.

for coal (*c.*) (SCHEURER-KESTNER), 1881, A., 122; 1885, A., 848, 1020; 1888, A., 771; 1891, A., 520; (SCHWACHOFER), 1885, A., 691; (ALEXÉEFF), 1886, A., 757.

for products of the distillation of coal (*c.*) (MAHLER), 1892, A., 395.

for coal-gas (*c.*) (WITZ), 1885, A., 172; (MAHLER), 1892, A., 396.

for colloids (*h.*) (WIEDEMANN and LUDWIG), 1885, A., 1031.

for some soluble compounds and the law of thermal substitution constants (*f.*) (TOMMASI), 1885, A., 8.

for isocuminic acid (*c.*) (BERTHELOT and LUGININ), 1887, A., 762.

for diazo-derivatives (*f.*) (VIGNON), 1888, A., 771.

for isodibutylene (*c.*) (MAHLER), 1890, A., 320.

for electrolytes (*dis.*) (ARRHENIUS), 1889, A., 1041; 1892, A., 931.

THERMOCHEMISTRY:—*Heat of formation*=*f.*; of *transformation*=*t.*; of *decomposition*=*d.*; of *dissociation*=*dis.*; of *combination*=*cb.*; of *combustion*=*c.*; of *neutralisation*=*n.*; of *substitution*=*sb.*; of *hydration*=*h.*

Thermochemical data for erythritol (c.) (STOHMANN), 1885, A., 857; (LUGININ), 1889, A., 668.

for erythroxides (*f.*) (DE FORCRAND), 1890, A., 935; 1891, A., 1312.

for ethane (*f.*) (THOMSEN), 1883, A., 545.

for ethereal salts of some fatty acids (c.) (LUGININ), 1885, A., 327; 1886, A., 192, 757.

for ethyl ether (c.) (STOHMANN), 1887, A., 425.

for ethylene oxide (c. and *f.*) (BERTHELOT), 1883, A., 275.

for ethylene oxide with hydrogen chloride (*cb.*) (BERTHELOT), 1883, A., 174.

for ethylenic perchloride (*f.*) (THOMSEN), 1883, A., 544.

for ethylic alcohol (c. and *f.*) (BERTHELOT and MATIGNON), 1892, A., 1139.

for ethylic acetocyanacetate, benzoylcyanacetate, and cyanomalonate (n.) (HALPER and GUNTZ), 1888, A., 894.

for explosive mixtures, some relations between specific heats, dissociation, pressure and (c.) (BERTHELOT), 1883, A., 771.

for fats (c.) (STOHMANN), 1885, A., 857; (*f.*) (STOHMANN and LANGBEIN), 1891, A., 11.

for ferrous sulphide (*f.*) (MÜLLENHOFF), 1885, A., 950.

for fluorides (*f.*) (GUNTZ), 1884, A., 5, 545, 516; (TOMMASI; BERTHELOT), 1884, A., 515; (n.) (PETERSEN), 1890, A., 1.

for fluorine compounds (*f.* and *dis.*) (GUNTZ), 1884, A., 1215.

for fluorine with hydrogen (*cb.*) (BERTHELOT and MOINSAN), 1889, A., 1096.

for formylcarbamide (c. and *f.*) (MATIGNON), 1891, A., 1448.

for food constituents and their derivatives (c.) (STOHMANN), 1885, A., 857; (STOHMANN and LANGBEIN), 1892, A., 4.

for formic acid (c.) (JAHN), 1890, A., 99; (c. and *f.*) (BERTHELOT and MATIGNON), 1892, A., 1139.

for fumaric acid (n.) (GAL and WERNER), 1887, A., 205; (c.) (LUGININ), 1888, A., 893; (c.

and *f.*) (STOHMANN, KLEBER and LANGBEIN), 1889, A., 1097; (STOHMANN), 1892, A., 1041.

Thermochemical data for certain gases (*cb.*) (RAABE), 1883, A., 274.

for glucose (c.) (BERTHELOT and RECOURA), 1887, A., 761.

for glutaric acid (n.) (MASSOL), 1892, A., 1141.

for glyceric acid (n.) (GAL and WERNER), 1887, A., 205.

for glycerol (c.) (STOHMANN), 1885, A., 857.

for potassium glyceroxide (*f.*) (DE FORCRAND), 1887, A., 320.

for glycocine (c.) (STOHMANN), 1885, A., 857.

for mono- and di-sodium glycol (*f.*) (DE FORCRAND), 1888, A., 1238; 1892, A., 421, 576.

for glycollic acid and its salts (*f.*) (DE FORCRAND), 1883, A., 644, 708, 771, 775; (TOMMASI), 1883, A., 708, 775.

for glycollic acid (*h.*) (DE FORCRAND), 1884, A., 547.

for glyoxal ammonium hydrogen sulphite (*f.*) (DE FORCRAND), 1885, A., 627.

for glyoxal barium and potassium hydrogen sulphites (*f.*) (DE FORCRAND), 1884, A., 939.

for glyoxylic acid and its salts (n. and *f.*) (DE FORCRAND), 1886, A., 297.

for graphitic and pyrographitic oxides (c.) (BERTHELOT and PETIT), 1890, A., 448.

for guanidine and nitroguanidine (c.) (MATIGNON), 1892, A., 1142.

for haloid salts (*dis.*, *f.*, n. and *t.*) (BERTHELOT), 1884, A., 656.

for hemipinimide (c. and *t.*) (LIEBERMANN), 1892, A., 459.

for hexadecylic alcohol and palmitate (c.) (STOHMANN), 1885, A., 857.

for hippuric acid (c.) (STOHMANN), 1885, A., 857.

for humic acid from sugar (c. and n.) (BERTHELOT and ANDRÉ), 1891, A., 1456.

for hydrazine (n.) (BERTHELOT and MATIGNON), 1892, A., 261; (BACH), 1892, A., 933; (*f.*) (THOMSEN), 1892, A., 1143.

THERMOCHEMISTRY:—*Heat of formation*=*f.*; *of transformation*=*t.*; *of decomposition*=*d.*; *of dissociation*=*dis.*; *of combination*=*cb.*; *of combustion*=*c.*; *of neutralisation*=*n.*; *of substitution*=*sb.*; *of hydration*=*h.*

Thermochemical data for aromatic hydrocarbons (c.) (STOHMANN, RODATZ and HERZBERG), 1887, A., 427; (c. and f.) (STOHMANN, KLEBER and LANGBEIN), 1889, A., 1042.
for solid hydrocarbons (c. and f.) (BERTHELOT and VIETLE), 1886, A., 756.
for hydrogen compounds (f.) (TOMMANN), 1885, A., 716.
for hydrogen with fluorine (cb.) (BERTHELOT and MOISSAN), 1889, A., 1096.
for hydrogen with oxygen (cb.) (BOILLOT), 1885, A., 8.
for hydrogen chloride with ethylene oxide (cb.) (BERTHELOT), 1883, A., 171.
for hydroxybenzenes (c.) (STOHMANN, RODATZ and HERZBERG), 1886, A., 655.
for hydroxybenzoic acids (f., n. and t.) (BERTHELOT and WERNER), 1885, A., 1103; (c. and f.) (STOHMANN, KLEBER and LANGBEIN), 1889, A., 1096.
of hydroxyl for hydrogen (sb.) (STOHMANN), 1886, A., 656.
for hydroxylamine and its salts (f.) (BERTHELOT and ANDRÉ), 1890, A., 934.
for hyponitrites (f.) (BERTHELOT and OGIER), 1883, A., 423; (BERTHELOT), 1889, A., 930.
for inosite (c. and f.) (BERTHELOT and RECOURA), 1887, A., 1011; (BERTHELOT and MAIGNON), 1890, A., 1360; (STOHMANN and LANGBEIN), 1892, A., 761.
for isomeric inosites (t.) (BERTHELOT), 1890, A., 1011.
for iodine and bromine with magnesium (cb.) (BEKETOFF), 1892, A., 762.
for iodine chlorides (f.) (THOMSEN), 1883, A., 543; (t.) (STORTENBEKER), 1892, A., 1387.
for itaconic acid (n.) (GAL and WERNER), 1887, A., 205; (c.) (LUGININ), 1888, A., 893.
for ketones (c.) (LUGININ), 1884, A., 547.
for lauric acid (c.) (STOHMANN and RODATZ), 1885, A., 1176.
for double salts of lead and potassium iodides (f.) (BERTHELOT), 1883, A., 275.

Thermochemical data for lead oxychlorides and oxybromides (f.) (ANDRÉ), 1884, A., 384.
for lithium bromide (f.) (BODISCO), 1889, A., 1098.
for lithium iodide (f.) (BODISCO), 1889, A., 329.
for lithium oxide (f.) (BEKETOFF), 1884, A., 1247.
for magnesium compounds (f.) (BERTHELOT), 1887, A., 96.
for magnesium with bromine and iodine (cb.) (BEKETOFF), 1892, A., 762.
for malates (f. and n.) (MASSOL), 1892, A., 260.
for maleic acid (n.) (GAL and WERNER), 1887, A., 205; (c.) (LUGININ), 1888, A., 893; (c. and f.) (STOHMANN, KLEBER and LANGBEIN), 1889, A., 1097; (STOHMANN and KLEBER), 1892, A., 1041.
for maleic anhydride (h.) (OSNIROFF), 1890, A., 680.
for malic acid (n.) (GAL and WERNER), 1887, A., 96, 205; (f. and n.) (MASSOL), 1892, A., 260.
for malonic acid (n.) (GAL and WERNER), 1887, A., 96; (MASSOL), 1888, A., 1240; 1889, A., 857.
for malonates (f.) (MASSOL), 1889, A., 958; 1890, A., 1396, 1397.
for sodium mannitol (f.) (DE FORCRAND), 1892, A., 800.
for meconic acid (n.) (BERTHELOT), 1880, A., 8; (GAL and WERNER), 1887, A., 206.
for mellitic acid (n.) (BERTHELOT), 1886, A., 8; (GAL and WERNER), 1887, A., 206; (c.) (STOHMANN, KLEBER and LANGBEIN), 1889, A., 1096.
for mercury compounds (f.) (THOMSEN), 1888, A., 1011; (NERNST), 1888, A., 1012.
for mercury oxybromides and oxychlorides (f.) (ANDRÉ), 1881, A., 707, 884.
for mosaconic acid (n.) (GAL and WERNER), 1887, A., 205; (c.) (LUGININ), 1888, A., 893.
for methane (f.) (THOMSEN), 1883, A., 514.
for methylaniline (f.) (PETIT), 1888, A., 1239.

THERMOCHEMISTRY:—*Heat of formation*=*f.*; *of transformation*=*t.*; *of decomposition*=*d.*; *of dissociation*=*dis.*; *of combination*=*cb.*; *of combustion*=*c.*; *of neutralisation*=*n.*; *of substitution*=*sb.*; *of hydration*=*h.*

Thermochemical data for di-, tri-, tetra-, penta- and hexa-methylene rings (c. and f.) (STOHMANN and KLEBER), 1892, A., 1041.

for methylic alcohol and solid methyl salts (c. and f.) (STOHMANN, KLEBER and LANGBEIN), 1890, A., 101.

for methylic alcohol with sodium (cb.) (DE FORCRAND), 1885, A., 1031.

for methylmalonic acid (n.) (MASSOL), 1892, A., 1140.

for methylsuccinic acid (c.) (LUGLININ), 1889, A., 5; (c. and f.) (STOHMANN, KLEBER and LANGBEIN), 1889, A., 1097; (n.) (MASSOL), 1892, A., 1140.

for rock-forming minerals (f.) (DIEULAFAIT), 1886, A., 35.

for permolybdic acid (f.) (PÉCHARD), 1892, A., 1383.

for myristic acid (c.) (STOHMANN and RODATZ), 1885, A., 1176.

for naphthalene (c. and f.) (BERTHELOT and RECOURA; BERTHELOT and LUGLININ), 1887, A., 762; (STOHMANN, KLEBER and LANGBEIN), 1889, A., 1042.

for nicotine (n.) (COLSON), 1890, A., 101.

for nitriles (c. and f.) (BERTHELOT and PETIT), 1889, A., 812.

for nitrobenzenes (c. and f.) (PETIT), 1888, A., 1013; (BERTHELOT and MATIGNON), 1892, A., 4.

for nitrogen selcnide (d.) (BERTHELOT and VIEILLE), 1883, A., 707.

for nitrogenous compounds derived from albuminoids (c. and f.) (BERTHELOT and ANDRÉ), 1890, A., 936; (c.) (BERTHELOT and ANDRÉ), 1890, A., 937.

for the nitro-group (sb.) (MATIGNON), 1892, A., 1141.

for the nononaphthenes (c.) (OSSIPOFF), 1889, A., 6, 460.

for olefines (c.) (GROSHANS), 1886, A., 498.

for the oxime of opianic anhydride (c. and t.) (LIEBERMANN), 1892, A., 459.

for oxalic acid (c.) (STOHMANN), 1885, A., 857; (JAHN), 1890, A., 100; (n.) (GAL and WERNER), 1887, A., 96.

Thermochemical data for oxalic acid, mercury salt of (f.) (BERTHELOT), 1884, A., 706.

for oxaluric acid (c. and f.) (MATIGNON), 1891, A., 1449.

for oxygen with carbon (cb.) (BOILLOT), 1884, A., 141.

for oxygen with hydrogen (cb.) (BOILLOT), 1885, A., 8.

for parabanic acid (c. and f.) (MATIGNON), 1891, A., 1449.

for paraffins (c.) (STOHMANN), 1885, A., 857; (c. and f.) (GROSHANS), 1886, A., 498.

for phenol (c.) (STOHMANN), 1885, A., 857; (BERTHELOT and LUGLININ), 1887, A., 762.

for phenols (n.) (BERTHELOT and WERNER), 1885, A., 628; (BERTHELOT), 1886, A., 6, 7; (c. and f.) (STOHMANN, RODATZ and HERZBERG), 1887, A., 98; (STOHMANN and LANGBEIN), 1892, A., 763.

for phenyl ethers (c. and f.) (STOHMANN, RODATZ and HERZBERG), 1887, A., 428.

for phenylenediamine salts (f.) (VIGNON), 1888, A., 1012; (n.) (VIGNON), 1889, A., 1099.

for phosphates (f.) (BERTHELOT), 1887, A., 94; (JOLY), 1887, A., 202, 877.

for hypophosphoric acid (n.) (JOLY), 1886, A., 408.

for phosphorus chlorides (f.) (THOMSEN), 1883, A., 544; 1884, A., 250.

for phthalic acid (c.) (STOHMANN), 1885, A., 857.

for phthalates (f.) (COLSON), 1885, A., 1104.

for picrates (f., n. and h.) (TSCHELZOFF), 1885, A., 1103; 1886, A., 841; (f.) (TUMMAN), 1886, A., 408.

for *n*-pimelic acid (c. and f.) (STOHMANN, KLEBER and LANGBEIN), 1889, A., 1097; (STOHMANN and KLEBER), 1892, A., 1041.

for piperidine (n.) (COLSON), 1890, A., 101.

for platonic bromide and its derivatives (f.) (PIGEON), 1892, A., 3.

for platonic chloride (f.) (PIGEON), 1890, A., 439.

THERMOCHEMISTRY:—*Heat of formation*=*f.*; of *transformation*=*t.*; of *decomposition*=*d.*; of *dissociation*=*dis.*; of *combination*=*cb.*; of *combustion*=*c.*; of *neutralisation*=*n.*; of *substitution*=*sb.*; of *hydration*=*h.*

Thermochemical data for potassiummonium (*f.*) (JOANNIS), 1890, A., 319.
 for potassium salts containing sulphur (*f.*) (BERTHELOT), 1883, A., 706.
 for potassium oxide (*f.*) (BEKETOFF), 1884, A., 1247.
 for propionic acid (*c.*) (JAHN), 1890, A., 100; (*n.*) (MASSOL), 1891, A., 1313.
 for alkali propionates (*n.*) (MASSOL), 1891, A., 1313.
 for pyridine (*n.*) (COLSON), 1890, A., 101.
 for pyrocatechol (*c.*) (STOHMANN), 1885, A., 857.
 for disodium pyrocatechol (*n.*) (DE FORCRAND), 1892, A., 1185.
 for the pyrocitric acids (*c.*) (LUGININ), 1888, A., 893.
 for pyrogallol (*c.*) (STOHMANN), 1885, A., 857; (BERTHELOT and LUGININ), 1887, A., 762.
 for pyrogallols (*f.* and *n.*) (DE FORCRAND), 1892, A., 1313, 1446.
 for quercitol and quinic acid (*c.* and *f.*) (BERTHELOT and RECOURA), 1887, A., 1011.
 for quinol (*c.*) (BERTHELOT and LUGININ), 1887, A., 762.
 for sodium quinol (*n.*) (DE FORCRAND), 1892, A., 1185.
 for quinone (*c.*) (BERTHELOT and RECOURA; BERTHELOT and LUGININ), 1887, A., 762.
 for resorcinol (*c.*) (STOHMANN), 1885, A., 857.
 for sodium resorcinol (*n.*) (DE FORCRAND), 1892, A., 1185.
 for rubidium (*c.*) (BEKETOFF), 1890, A., 679.
 for salicylic acid (*c.*) (STOHMANN), 1885, A., 857; (BERTHELOT and RECOURA), 1887, A., 762.
 for salts (*h.*) (PICKERING), 1884, A., 803; 1886, T., 117; P., 257; 1887, T., 75; (*f.*) (PICKERING), 1886, T., 287; P., 164; (POULIZIN), 1886, A., 116; (VAN DEVENTER and REICHER), 1892, A., 262.
 for selenides (*f.*) (FABRE), 1886, A., 961, 962.
 for vitreous into metallic selenium (*z.*) (FABRE), 1886, A., 840.
 for selenium chloride (*f.*) (THOMSEN), 1888, A., 543.

Thermochemical data for alkaline silicofluorides (*f.*) (TRUCHOT), 1884, A., 881.
 for silicon tetrafluoride with ammonia (*cb.*) (TRUCHOT), 1885, A., 626.
 for silver chloride (*f.*) (RICHARDS), 1888, A., 400.
 for silver iodide and its compounds with cuprous and lead iodides (*t.*) (BELLATI and ROMANESE), 1883, A., 274.
 for sodammonium (*f.*) (JOANNIS), 1890, A., 319.
 for sodium with methylic alcohol (*cb.*) (DE FORCRAND), 1885, A., 1031.
 for sodium oxide (*f.*) (BEKETOFF), 1884, A., 1247.
 for sorbic acid (*c.*) (OSHIPOFF), 1889, A., 460.
 for stannic acid and metastannic acid (*n.*) (VIGNON), 1889, A., 833.
 for stilbene (*c.*) (OSHIPOFF), 1889, A., 460.
 for succinic acid (*n.*) (GAL and WERNER), 1887, A., 96.
 for isosuccinic acid (*c.* and *f.*) (STOHMANN, KLEBER and LANGBEIN), 1889, A., 1097; (*n.*) (MASSOL), 1892, A., 1140.
 for alkaline succinates and isosuccinates (*f.*) (TANATAR), 1890, A., 320.
 for sugars (*c.* and *f.*) (BERTHELOT and MATIGNON), 1890, A., 1860; (FOUQ), 1892, A., 933.
 for sulphates (*f.* and *t.*) (PICKERING), 1884, T., 686; 1886, T., 1; (*f.*) (DE FORCRAND), 1884, A., 1; (ILLINGWORTH and HOWARD), 1885, A., 339.
 for sulphates and chlorides in aqueous solution, relation between (*f.*) (FAY) 1888, A., 101.
 for alkaline sulphites (*f.* and *n.*) (BERTHELOT), 1883, A., 701.
 for pyrosulphites (*f.*) (BERTHELOT), 1883, A., 705.
 for sulphur compounds (*c.* and *f.*) (BERTHELOT and MATIGNON), 1890, A., 1361.
 for sulphur chloride (*f.*) (THOMSEN), 1883, A., 543.
 for sulphur oxychloride (*f.*) (THOMSEN), 1884, A., 250.

THERMOCHEMISTRY:—*Heat of formation*=*f.*; *of transformation*=*t.*; *of decomposition*=*d.*; *of dissociation*=*dis.*; *of combination*=*cb.*; *of combustion*=*c.*; *of neutralisation*=*n.*; *of substitution*=*sb.*; *of hydration*=*h.*

Thermochemical data for sulphuric acid (*n.*) (PICKERING), 1889, T., 323; P., 79.
 for *persulphuric acid* and its salts (*f.* and *n.*) (BERTHELOT), 1892, A., 931.
 for *pyrosulphuric chloride* (*f.*) (KONOWALOFF), 1884, A., 250.
 for *sulphurous acid* (*n.*) (BERTHELOT), 1883, A., 704.
 for *tartar emetic* (*f.*) (GUNTZ), 1887, A., 541.
 for *d-* and *l-tartaric acids* (*c.*) (STOHMANN), 1885, A., 857; (*n.*) (GAL and WERNER), 1887, A., 96; (JAHN), 1891, A., 969.
 for *tartronic acid* (*n.*) (GAL and WERNER), 1887, A., 96.
 for *crystallised telluride* (*f.*) (FABRE), 1887, A., 1010.
 for the *allotropic modification of tellurium* (*f.*) (BERTHELOT and FABRE), 1887, A., 761.
 for *tellurium chloride* (*f.*) (THOMSEN), 1883, A., 543.
 for *terebic acid* (*c.*) (ONSIPOFF), 1889, A., 460.
 for *terephthalic acids* and their salts (*c.* and *f.*) (STOHMANN and KLEBER), 1891, A., 376, 1147.
 for *terpene, terpin hydrate and terpin* (*c.*) (LUGNIN), 1889, A., 328.
 for *tetric acid* (*n.*) (BERTHELOT), 1886, A., 8.
 for *toluidines* (*f.*) (PETIT), 1888, A., 1239.
 for *triisobutylene* (*c.*) (MALBOT), 1890, A., 320.
 for *tricarballic acid* (*c.*) (LUGNIN), 1889, A., 668.
 for *potassium tricarballicates* (*f.*) (MASSOL), 1892, A., 762.
 for *trimethylene* (*c.*) (BRÜHL), 1891, A., 633.
 for *trimyristin* (*c.*) (STOHMANN), 1885, A., 857.
 for *uric acid* (*c.*) (STOHMANN), 1885, A., 857; (*f.*) (MATIGNON), 1890, A., 1040.
 for *alkaline urates* (*f.*) (MATIGNON), 1890, A., 1040.
 for *cooked vegetables* (*c.*) (WILLIAMS), 1892, T., 240.
 for *water-generator gas and carbonic anhydride-generator gas* (*c.*) (NAUMANN), 1892, A., 673.

Thermochemical data for the water molecule (*dis.*) (WIEDEMANN), 1883, A., 547.
 for *wood* (*c.*) (GOTTLIEB), 1884, A., 477.
 for *zinc carbonate* (*f.*) (DIEULAFAIT), 1886, A., 132.
 for *zinc ethyl* (*f.*) (GUNTZ), 1888, A., 15.
Heat of solution, theory of (DIETRICH), 1892, A., 676, 765.
law of (OSTWALD), 1888, A., 1020.
variation of solubility with variations in (LE CHATELIER), 1887, A., 548; (CHANCEL and PARMENTIER), 1887, A., 632.
 of the *alkaline earths and the alkalis* (THOMSEN), 1884, A., 250.
 of *alkylamines* (COLSON), 1891, A., 377.
 of *aluminium bromide in toluene* (GUSTAVSON), 1885, A., 472.
 of *allantoin, alloxan and alloxantin* (MATIGNON), 1891, A., 1448.
 of *amides* (BERTHELOT and FOGU), 1890, A., 1360.
 of *aniline salts* (BERTHELOT), 1890, A., 1361.
 of *aspartic acid* (BERTHELOT), 1891, A., 967.
 of *acids of the benzene series* (BERTHELOT), 1886, A., 8.
 of *certain compounds of the benzene series* (BERTHELOT), 1885, A., 1177.
 of *bromine in different liquids* (PICKERING), 1888, T., 865; P., 92.
 of **l*-bromomalonic acid and its salts* (MASSOL), 1892, A., 1140.
 of *calcium chloride* (PICKERING), 1888, P., 35; 1889, P., 86; 1891, P., 105.
 of *cyano- and nitro-camphors* (BERTHELOT and PETIT), 1889, A., 1098.
 of *carbon compounds in various alcohols* (TIMOFEEFF), 1891, A., 1313.
 of the *perchlorates* (BERTHELOT), 1883, A., 8.
 of *chlorides in different liquids* (PICKERING), 1888, T., 865; P., 92.
 of *hydrated metallic chlorides* (SABATIER), 1889, A., 1043.

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- Heat of solution of chromates** (SABATIER), 1886, A., 962.
 of colloids (WIEDEMANN and LUMBEKING), 1885, A., 1031.
 of ethoxides (DE FORCRAND), 1881, A., 4, 142.
 of ethylene oxide (BERTHELOT), 1883, A., 275.
 of fluorine compounds (GUNTZ), 1884, A., 1245.
 of hydrofluoric acid (GUNTZ), 1884, A., 544.
 of fumaric acid (GAL and WERNER), 1887, A., 205.
 of a gas (PAGLIANI), 1890, A., 846.
 of gases in liquids (PICKERING), 1892, A., 1042.
 of glutaric acid (MASSOL), 1892, A., 1141.
 of glyceroxides (DE FORCRAND), 1887, A., 8; 1888, A., 642.
 of *mono*- and *di*-sodium glycol (DE FORCRAND), 1888, A., 1238; 1892, A., 421.
 of glycollic acid and its salts (DE FORCRAND), 1883, A., 644, 774; (TOMMASI), 1883, A., 775.
 of glyoxylic acid and its salts (DE FORCRAND), 1886, A., 297.
 of guanidine and nitroguanidine (MATIGNON), 1892, A., 1142.
 of hydrazine (BERTHELOT and MATIGNON), 1892, A., 261; (BACH), 1892, A., 933.
 of hydroxybenzoic acids (BERTHELOT and WERNER), 1885, A., 1103.
 of iodine in different liquids (PICKERING), 1888, T., 873, 877; P., 92.
 of cast iron containing silicon and aluminium (OSMOND), 1892, A., 19.
 of itaconic acid (GAL and WERNER), 1887, A., 205.
 of lithium bromide (BODISCO), 1889, A., 1098.
 of lithium iodide (BODISCO), 1889, A., 329.
 of maleic acid (GAL and WERNER), 1887, A., 205.
 of malic acid and its salts (GAL and WERNER), 1887, A., 96; (MASSOL), 1892, A., 260.
 of malonic acid (GAL and WERNER), 1887, A., 96.
 of malonates (MASSOL), 1888, A., 1239; 1889, A., 958.
 of malonic chloride (BERTHELOT), 1891, A., 967.

THERMOCHEMISTRY:—

- Heat of solution of sodium mannitol** (DE FORCRAND), 1892, A., 800.
 of mesaconic acid (GAL and WERNER), 1887, A., 205.
 of sodium methoxide (DE FORCRAND), 1885, A., 1032.
 of nicotine (COLSON), 1890, A., 101.
 of nitrates in different liquids (PICKERING), 1888, T., 865; P., 92.
 of parabanic acid (MATIGNON), 1891, A., 1449.
 of phenol (DE FORCRAND), 1892, A., 1042.
 of phenols (BERTHELOT and WERNER), 1885, A., 628; (BERTHELOT), 1886, A., 6, 7.
 of phenylenediamines (VIGNON), 1889, A., 1099.
 of phosphorus trifluoride (BERTHELOT), 1885, A., 328.
 of hypophosphoric acid (JOLY), 1886, A., 408.
 of picrates (TSCHERZOFF), 1885, A., 1103; 1886, A., 841.
 of piperidine (COLSON), 1890, A., 101.
 of platonic chloride and its compounds (PIGEON), 1891, A., 966.
 of propionic acid and alkali propionates (MASSOL), 1891, A., 1313.
 of sodium isopropoxide (DE FORCRAND), 1892, A., 674.
 of pyridine (COLSON), 1890, A., 101.
 of *mono*- and *di*-sodium pyrocatechol (DE FORCRAND), 1892, A., 1181, 1185.
 of sodium resorcinol and quinol (DE FORCRAND), 1892, A., 1185.
 of hydrated and anhydrous salts (PICKERING), 1886, T., 260; P., 161.
 of salts, influence of temperature on (TILDEN), 1886, A., 499; P., 66; (PICKERING), 1887, T., 290; P., 20.
 of salts in water (SCHOLZ), 1892, A., 676.
 of salts in different liquids (PICKERING), 1888, T., 871, 875.
 of supersaturated saline solutions (BINDEL), 1890, A., 1012.
 of selenides (FABRE), 1886, A., 961.
 of alkaline silicofluorides (TRUCROT), 1884, A., 884.
 of anhydrous sodium carbonate (PICKERING), 1887, T., 73.

THERMOCHEMISTRY:—

- Heat of solution** of sodium phosphites and pyrophosphites (AMAT), 1890, A., 438.
 of salts of succinic and isosuccinic acids (TANATAR), 1890, A., 320.
 of sugars (BERTHELOT and MATIGNON), 1890, A., 1860.
 of sulphates (PICKERING), 1884, T., 686; 1885, T., 98, 100; 1886, T., 291, 306.
 of modifications of double sulphates (PICKERING), 1884, T., 686; 1885, T., 101; 1886, T., 1.
 of sulphites (BERTHELOT), 1883, A., 704; (DE FORCRAND), 1884, A., 803.
 of sulphur in different liquids (PICKERING), 1888, T., 874, 877; P., 92.
 of sulphuric acid solutions (PICKERING), 1889, P., 86; 1890, T., 94, 165.
 of persulphuric acid and its salts (BERTHELOT), 1892, A., 931.
 of sulphuric chloride (OGER), 1883, A., 642.
 of sulphurous acid (BERTHELOT), 1883, A., 704.
 of alkaline thionates (BERTHELOT), 1889, A., 667.
 of tartrates (BERTHELOT), 1891, A., 967.
 of tartaric acid (GALAND WERNER), 1887, A., 96; (MASSOL), 1892, A., 675.
 of tetric acid (BERTHELOT), 1886, A., 8.
 of urea (RUBNER), 1885, A., 328.
Heat of dilution of solutions of hydrobromic acid and of the solid hydrate $11\text{HBr} \cdot 2\text{H}_2\text{O}$ (ROOZEBOOM), 1887, A., 628.
 of hydrofluoric acid (HINTZ), 1884, A., 511.
 of solutions (MENDELÉEFF), 1886, A., 411.
 of saline solutions (ARONS), 1885, A., 1101.
 of sulphuric acid solutions (MENDELÉEFF), 1886, A., 413.

Thermodynamics. See Thermochemistry.

Thermoelectric. See Electrochemistry.

Thermometer. See Thermochemistry.

Thermonatrite, from Vesuvius (SCACCHI), 1891, A., 23.

Thetincarboxylic acids (DELSLE), 1892, A., 1133.

Thialdine, action of *o*-tolylthiocarbimide and of phenylthiocarbimide on (DIXON), 1889, T., 626, 627.

Thialdine thiocyanate, decomposition products of (MARCKWALD), 1886, A., 861.

Thiamides, action of aldehydes on (EPHRAIM), 1891, A., 831.

action of alkylene bromides on (GABRIEL and HEYMAN), 1891, A., 701.

action of ethylenediamine on (FORSELL), 1891, A., 1003; 1892, A., 1247.

of aromatic acids, reduction of (BAMBERGER and LODTER), 1888, A., 376.

Thiazine colouring matters, production of, by electrolysis (EVER and PICK), 1886, A., 187.

Thiazole (HANTZSCH and POPP), 1888, A., 1269; (POPP), 1889, A., 721; (HANTZSCH), 1892, A., 313.

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derivatives from bromopyruvic acids and from ethylic bromoacetate (STREUDE), 1891, A., 742.

Thiazole, μ -amido-. See Thiazoline.

μ -bromo- and μ -chloro- (SCHATZMANN), 1891, A., 745.

Thiazole- α -carboxylic acid, μ -amido- (STREUDE), 1891, A., 743.

Thiazole-dicarboxylic acid, μ -amido- (RUBLEFF), 1891, A., 221.

Thiazoles (HUBACHER), 1891, A., 220.
 from amidothiazoles (POPP), 1889, A., 721.

from thiamides (HANTZSCH), 1889, A., 723.

synthesis of (HANTZSCH), 1888, A., 571.

reduction of oxythiazoles to (ARAPIDES), 1889, A., 413.

Thiazoles, amido-, and their isomerides (TRAUMANN), 1889, A., 411.

from thiocarbamide and halogenated ketones and aldehydes (HANTZSCH and TRAUMANN), 1888, A., 573.

nitroso-derivatives of the (NÄF), 1891, A., 1515.

Thiazole-series, diazo-compounds of the (VOHMANN), 1891, A., 225.

Thiazolethiazole (NÄF), 1891, A., 1516.

"Thiazole-yellow" (TRAUTMANN), 1891, A., 195.

Thiazoline (μ -amidothiazole) (HANTZSCH and TRAUMANN), 1888, A., 573.

μ -nitrosoimido- (NÄF), 1891, A., 1515.

Thiazylacetic acid, μ -amido- (STREUDE), 1891, A., 743.

Thiazylaniline (HANTZSCH and TRAUMANN), 1888, A., 573; (TRAUMANN), 1889, A., 115.

- Thienol, nitro- (STADLER), 1885, A., 1205.
- β -Thienone (*dithienyl ketone*) and its hydrazide (TATTERMANN), 1886, A., 228.
- Thienyl (MEYER), 1884, A., 586.
- β -Thienyl alcohol and chloride (BIEDERMANN), 1886, A., 536.
- Thienyl hexyl ketone and ketoxime (SCHLEICHER), 1886, A., 539.
- Thienyl mercaptan and its derivatives (BIEDERMANN), 1886, A., 788; (MEYER and NEURE), 1887, A., 805.
- Thienyl methyl ketone. See Acetothienone.
- Thienyl methyl thioether. See Thiomethoxythiophen.
- Thienyl phenyl ketone. See Phenyl thienyl ketone.
- Thienyl isopropyl ketone. See *iso*-Butyrothienone.
- Thienyl styryl ketone (BRUNSWIG), 1887, A., 237.
- Thienyl *disulphide* (MEYER and NEURE), 1887, A., 805.
- Thienyl *o*-tolyl ketone (ERNST), 1887, A., 238.
- Thienylacetic acid (ERNST), 1887, A., 238.
- oxime of (PETER), 1885, A., 765.
- amido- (BRADLEY), 1886, A., 1014.
- Thienylacrylic acid (BIEDERMANN), 1886, A., 871.
- Thienyl-2:5-dimethylglyoxylic acid (RUFF), 1887, A., 805.
- Thienyldiphenylmethane (LEVI), 1886, A., 787.
- Thienylethylamine (GOLDSCHMIDT and SCHULTHEISS), 1887, A., 718.
- Thienylglycollic acid (ERNST), 1887, A., 238.
- α -Thienylglyoxylic acid (PETER), 1885, A., 764; (BRADLEY), 1886, A., 1011.
- derivatives of (BRADLEY), 1886, A., 1011.
- nitro- (PETER), 1885, A., 761.
- β -oxime of (PETER), 1885, A., 765; (BRADLEY), 1886, A., 1011; (HANTZSCH), 1891, A., 441.
- Thienylisooxazolic acid (SALVATORI), 1892, A., 301.
- 5:1-Thienylphenyl-pyrazole and -pyrazolic acid (SALVATORI), 1892, A., 303.
- Thinolite of Lake Lahontan, crystallographic study of (DANA), 1886, A., 515.
- Thioacetaldehyde (MARCKWALD), 1886, A., 864.
- oxidation of (GUARESCHI), 1884, A., 294.
- tri*Thioacetaldehyde (MARCKWALD), 1886, A., 865; 1888, A., 127; (BAUMANN and FROMM), 1890, A., 25; 1891, A., 1008, 1010; (BAUMANN), 1890, A., 477.
- tri*Thioacetaldehydesulphone (BAUMANN and FROMM), 1890, A., 26.
- Thioacetals (*mercaptals*) (BAUMANN), 1885, A., 748.
- Thioacetanilide (JACOBSON), 1886, A., 700.
- Thioacetic acid, action of, on ethylic thiocyanate (CHANIAROFF), 1883, A., 39.
- compounds of aldehydes, ketones, and ketonic acids with (BONGARTZ), 1886, A., 937.
- Thioacetic anhydride (DAVIES), 1892, A., 300, 581.
- Thioaceto-*p*-cumide (JACOBSON and NEY), 1889, A., 771.
- Thio- β -acetonsaphthalide (JACOBSON), 1888, A., 1307.
- Thioacetone (BAUMANN and FROMM), 1890, A., 26.
- di*Thioacetonediacetic acid (*isopropylidenebis*thioglucolic acid) (BONGARTZ), 1886, A., 938.
- tri*Thioacetone-*di*- and -*tri*-sulphones (*trisopropylidenebis*thioglucolic acid) (BAUMANN and FROMM), 1890, A., 26.
- di*Thioacetophenonediacetic acid (*phenylthiylidenebis*thioglucolic acid) (BONGARTZ), 1886, A., 938.
- Thioaceto-*m*-xylylide (GUDEMAN), 1888, A., 1282; (JACOBSON and NEY), 1889, A., 771.
- Thioacetylquinol (LEUCKART), 1890, A., 604.
- Thioaldehydes (BAUMANN and FROMM), 1890, A., 25; 1891, A., 1008; (BAUMANN), 1890, A., 177; (BAUMANN and CAMPS), 1890, A., 478.
- aromatic (BAUMANN and FROMM), 1891, A., 1050.
- Thioallylbenzene (*thiophenolpropylene*; *phenyl allyl sulphide*) (ESCALES and BAUMANN), 1886, A., 879.
- α -Thioallylbenzene (*phenyl α allyl sulphide*) (AUTENRIETH), 1890, A., 362.
- Thioammeline and its salts (KLASON), 1886, A., 523; (RATHKE), 1887, A., 650.
- formula of (RATHKE), 1886, A., 217.
- Thioanhydro-compounds, formation of (JACOBSON and FRANKENBACHER), 1891, A., 1048.
- Thioanisidine (v. HOFMANN), 1887, A., 823.
- Thioanisylthiocarbamides, *mono*- and *di*- (v. HOFMANN), 1887, A., 823.

Thioanisylthiocarbimide (V. HOFMANN), 1887, A., 828.

Thioantimonites from Colorado (EAKINS), 1889, A., 218.

Thioarsenates (PREIS), 1890, A., 1053. from Långban (LINDGREN), 1883, A., 434.

Thioarsenic acid, separation of, from thiooxyarsenic acid (McCAY), 1892, A., 1519.

Thiobenzaldehydes, α -, β -, and γ - (BAUMANN and FROMM), 1890, A., 25; 1891, A., 1050; (BARBAGLIA and MARQUARDT), 1891, A., 1049.

***d*-Thiobenzaldehydediacetic acid** (*benzylidenbis(hydroglycollic acid)*) (BONGARTZ), 1886, A., 478, 937.

Thiobenzaldine (BAUMANN and FROMM), 1891, A., 1050.

Thiobenzamide, action of iodine on (V. HOFMANN and GABRIEL), 1892, A., 1109.

α -Thiobenzoic acid, arsenic and mercury salts of (RAYMAN), 1887, A., 950.

Thiobenzophenone (BERGREEN), 1888, A., 445.

***d*-Thiobenzophenonediacetic acid** (*diphenylmethylenbis(hydroglycollic acid)*) (BONGARTZ), 1886, A., 479, 938.

Thiobenzo-*o*-toluidide (STIEGLITZ), 1890, A., 256.

Thiobenzo-*p*-toluidide (MULLER), 1890, A., 43.

Thiobenzo-xylylide (GUDEMAN), 1888, A., 1282.

4-Thiobis-1-phenyl-3-methylpyrazolone (V. BUCHKA and SPRAGUE), 1890, A., 796; (MICHAELIS), 1890, A., 1269; (SPRAGUE), 1891, T., 332, 335.

Thiobiuret (HECHT), 1892, A., 703.

Thioisobutaldehyde (BARBAGLIA), 1889, A., 120.

Thiocarbamates, reactions of (MARCHESINI), 1892, A., 1318.

***d*-Thiocarbamates**, aromatic (LOSANITSCH), 1892, A., 55.

Thiocarbamic chloride (KLASON), 1887, A., 1025.

***tetra*-Thiocarbamidammonium bromide, chloride, and iodide** (REYNOLDS), 1891, A., 384.

Thiocarbamidazobenzene (BERNU), 1884, A., 1149; 1885, A., 660.

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- β*-Thiocyanopropylphthalimide (SETTZ), 1891, A., 1473.
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- dl*-**Thiomethylbenzylidene**. See *dl*-**Thio-di- α -methoxytoluene**.
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- Thiomethyl-uracil** and **-uracilacetic acid** (LIST), 1887, A., 128.
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- Thionaphthen** (MEYER), 1886, A., 713.
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- γ -Thio-octonitrile** (GABRIEL), 1890, A., 1221.
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- α -Thiophencarboxylic acid and its derivatives** (NAHNSEN), 1885, A., 51; (PETER), 1885, A., 765; (MEYER), 1885, A., 1051; 1886, A., 534.
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disulphide (*stannic sulphide*) (STORCH), 1889, A., 1053.

compounds of, with tin *diselenide* (DITTE), 1883, A., 156.

detection of, in presence of antimonious sulphide (GRIFFITH), 1887, A., 183.

Tin monotelluride (*stannous telluride*), action of hydrochloric acid on (DIRTE), 1884, A., 19.

Stannous dithionate (KLUS), 1888, A., 1156.

Tin organic compounds, two (FISCHER), 1885, A., 377.

tetrehthide (LETTS and COLLIE), 1886, P., 166.

molecular refraction and dispersion of (GLADSTONE), 1891, T., 296.

tetraphenyl (POLIS), 1890, A., 166.

Tin, detection, estimation and separation :—

reaction of, with nitric and sulphuric acids (BASSETT), 1886, A., 599.

microchemical reactions of (STRENG), 1889, A., 78.

delicate test for (RIDEAL), 1885, A., 1013.

test for, with brucine (DRYER), 1881, A., 498.

detection of, in corpses (SEYDA), 1891, A., 121.

detection of, in minerals (JOHNSONE), 1890, A., 830.

detection of antimony, arsenic and (PIESZCEK), 1892, A., 918.

precipitation of, from acid solutions by metallic iron (SCHULTZE), 1890, A., 853.

estimation of (CHIMMER), 1884, A., 1078; (CLASSEN), 1885, A., 191; (BENAS), 1885, A., 839; (LESSER), 1888, A., 754; (LOVITON), 1888, A., 992; (BRAND), 1890, A., 294; (HILGER and HAAS), 1890, A., 666; (LUCKOW), 1892, A., 1129.

estimation of, in alloys (WACHSMUTH), 1887, A., 304; (WARREN), 1888, A., 632; (FRENCH), 1892, A., 1030.

estimation of, in corpses (SEYDA), 1891, A., 121.

estimation of, in "hardhead" (FRESSENIUS and HINIZ), 1886, A., 180.

estimation of, in siliceous slags (WARREN), 1888, A., 632.

estimation of, in sugar (PHIPSON), 1889, A., 1036.

estimation of lead in (YVON), 1889, A., 549; (PERRON), 1890, A., 665.

separation of, from antimony (CARNOT), 1886, A., 1077; (WARREN), 1888, A., 632; 1891, A., 366; (LOVITON), 1888, A., 992; (CLASSEN and SCHEIDT), 1889, A., 77.

separation of, from antimony and arsenic (BERGLUND), 1884, A., 777; 1885, A., 839; (CLASSEN and LUDWIG), 1885, A., 922; (CARNOT),

Tin, separation :—

1886, A., 1078; (LESSER), 1888, A., 754; (CLARK), 1892, T., 424; P., 68.

separation of antimony, arsenic and, from gold and platinum (DE KONINCK and LECRENIER), 1888, A., 1344.

separation of, from bismuth, cadmium and lead (JANNASCH and ETZ), 1892, A., 754.

separation of, from titanium (HILGER and HAAS), 1890, A., 666; (HAAS), 1890, A., 1029.

Tin capels, Cornish (COLLINS), 1886, A., 988.

Tin mineral in process of formation (MEUNIER), 1890, A., 1082.

Tin ores from Asia (FISCHER), 1883, A., 435.

deposits of Mt. Bischoff (v. GONDECK), 1888, A., 431.

analysis of (BURGHARDT), 1890, A., 1027; (WELLS), 1892, A., 510.

dry assay of (HOFFMANN), 1891, A., 246, 502.

Tinplate, estimation of lead in (CARLES), 1884, A., 1078.

Tin scrap, to work up (ANON.), 1886, A., 109.

Tin stone. See Cassiterite.

Tinder ore from the Harz (LUEDECKE), 1883, A., 1061.

Tintometer (LOVIBOND), 1890, A., 1461.

Tintura for wines (JAY), 1885, A., 309.

Tirmania africana, analysis of (CHATTIN), 1892, A., 654.

Tissue, living, active oxygen in (WURSTER), 1888, A., 863.

pulmonary, action of, in the expiration of carbonic anhydride (GARNIER), 1886, A., 1052.

cellulose (YOUNG), 1892, A., 1113.

vegetable. See Vegetable tissue under Agricultural Chemistry.

Tissues, determination of the rate of consumption of oxygen in, by means of the spectroscope (DENNIG), 1884, A., 1391.

deposits of iron and glycogen in (DELÉPINE), 1891, A., 1274.

toxic action of various (HFRICOURT and RICHET), 1892, A., 228.

estimation of the wool, silk, and cotton in (RÉMONT), 1885, A., 96.

Tissue-fibrinogens (WRIGHT), 1891, A., 1524; 1892, A., 646.

Tissue-waste in the fowl during starvation (KUCKEIN), 1883, A., 603.

Titanic iron. See Ilmenite.

- Titanic iron sand** from Brazil, analysis of (MACKINTOSH), 1835, A., 878.
- Titanic oxide.** See **Titanium dioxide**.
- Titaniferous garnet** from North Carolina (GENTH), 1891, A., 155.
- Titanite.** See **Sphene**.
- Titanium** (V. DER PFORDTEN), 1887, A., 14; (KOENIG and V. DER PFORDTEN), 1889, A., 1122.
- atomic weight of (THORPE), 1884, A., 395; 1885, T., 108; P., 1.
- physical constants of (NILSON and PETERSSON), 1887, A., 778.
- alloy of, with silicon and aluminium (LÉVY), 1888, A., 423.
- compounds (KOENIG and V. DER PFORDTEN), 1889, A., 947.
- Titanium tetrabromide**, pure, preparation of (THORPE), 1885, T., 126.
- carbide in pig iron (SHIMER), 1887, A., 703.
- chloride (WAGNER), 1888, A., 557.
- di-* and *tri-*chlorides (V. DER PFORDTEN), 1887, A., 338.
- trichloride*, reduction of (KOENIG and V. DER PFORDTEN), 1889, A., 1123.
- tetrachloride* (V. DER PFORDTEN), 1887, A., 337.
- pure, preparation of (THORPE), 1885, T., 119.
- molecular refraction and dispersion of (GLADSTONE), 1891, T., 299.
- action of, on metals (LÉVY), 1890, A., 1066.
- fluorides, double (PICCINI), 1884, A., 264; 1886, A., 670; 1891, A., 271; (PETERSEN), 1889, A., 107.
- oxyfluorides of (PICCINI), 1884, A., 264.
- oxide, hydrated, from Diamantina (GORCEIX), 1885, A., 640.
- sesquioxide* (KOENIG and V. DER PFORDTEN), 1889, A., 1122.
- action of nitric oxide on (SABATIER and SENDERN), 1892, A., 1152.
- dioxide (titanic anhydride; titanic oxide)* in soils (MCALLAN), 1888, A., 745.
- hydrated (V. DER PFORDTEN), 1887, A., 337.
- crystallisation of (HAUTEFVILLE and PLERREY), 1890, A., 1071.
- fourth form of (HIDDEN), 1889, A., 354.
- distribution of, on the earth (DUNNINGTON), 1892, A., 791.
- action of carbon *tetrachloride* on (DEMARÇAY), 1887, A., 329.
- action of magnesium and hydrogen on (WINKLER), 1890, A., 1375.
- Titanium dioxide** (*titanic anhydride; titanic oxide*), action of magnesium on (WINKLER), 1891, A., 802.
- colour reactions of (LÉVY), 1887, A., 304.
- separation of, from alumina and ferric oxide (COHEN), 1884, A., 640.
- trioxide* (WEILLER), 1883, A., 295; (JACKSON), 1883, A., 823; (CLASSEN), 1888, A., 424, 789; (PICCINI), 1888, A., 789; (LÉVY), 1889, A., 572.
- Titanic acids** (PICCINI), 1883, A., 1056.
- gelatinous modification of (V. DER PFORDTEN), 1884, A., 1093.
- Titanic acid** (WAGNER), 1888, A., 557.
- dehydration of, by heat (CARNELLEY and WALKER), 1888, T., 66, 81.
- influence of, on the fusibility of refractory earths (SEGER), 1884, A., 784.
- action of sodium on (KOENIG and V. DER PFORDTEN), 1889, A., 1122.
- oxidation of (PICCINI), 1883, A., 1055.
- as a mordant (BARNES), 1886, A., 292.
- combination of phosphoric acid with (HAUTEFVILLE and MARCOTTET), 1886, A., 670.
- mono-, di- and tri-*chlorides (KOENIG and V. DER PFORDTEN), 1888, A., 788.
- hydrochloride (KOENIG and V. DER PFORDTEN), 1889, A., 947.
- phenyl-derivative of (SCHUMANN), 1888, A., 679.
- reaction of (FRIEDENUS), 1886, A., 181.
- estimation of (LÉVY), 1887, A., 1061.
- estimation of, in presence of iron (WIGAND), 1883, A., 381.
- Titanates**, artificial production of certain (BOURGOIS), 1884, A., 564.
- Pertitanic acid**, fluoric derivatives of (PICCINI), 1888, A., 1255.
- Titanium phosphates**, double (OYVARD), 1890, A., 1379.
- sulphides (V. DER PFORDTEN), 1884, A., 1093; 1887, A., 15; (THORPE), 1885, T., 491; P., 69.
- Titanium organic compounds**:—
- cyanonitride (REINHARDT), 1888, A., 1047; (LUTDEKING), 1888, A., 1263.

Titanium organic compounds:—

Titanium ethyl, attempts to prepare (PATERNO and PERATONER), 1889, A., 591.

Titanium, detection, estimation and separation:—

detection of (WELLER), 1883, A., 381; (JACKSON), 1883, A., 823; (NOYES), 1891, A., 1295.

estimation of (WELLER), 1883, A., 381; (LÉVY), 1888, A., 196; (HILGER and HAAS), 1890, A., 666; (NOYES), 1891, A., 1295.

estimation of, in iron and its ores (LEDEBUR), 1885, A., 1160.

estimation of, in iron ores (JENNINGS), 1889, A., 189.

estimation of, in rock analysis (CHARTARD), 1891, A., 768.

estimation of, in natural silicates (HOLLAND), 1889, A., 443.

estimation of, in titanium aluminium (HUNT, CLAPP, and HANDY), 1892, A., 1131.

separation of, from aluminium (GOOCH), 1885, A., 1265; 1886, A., 492.

separation of, from iron (GOOCH), 1885, A., 1265; 1886, A., 492; (CLAESSENS), 1888, A., 532.

separation of, from niobium and zirconium (DEMARÇAY), 1885, A., 639.

separation of, from tin (HILGER and HAAS), 1890, A., 666; (HAAS), 1890, A., 1029.

Titanium minerals, distribution of (THURACH), 1886, A., 126.

decomposition of (JONAS), 1892, A., 664.

Tobacco, influence of the ash constituents on the combustibility of (MAYER), 1890, A., 1458.

slow combustion of (SCHLESING), 1888, A., 979; 1889, A., 639.

ratio of starch to sugar in (MÜLLER), 1886, A., 904.

wax from (KISSLING), 1884, A., 173.

climatic conditions for the development of nicotine in (MAYER), 1891, A., 858.

estimation of nicotine in (BIEL), 1888, A., 876; (KISSLING), 1890, A., 430.

composition of "smalls" of (BROWN), 1889, A., 543.

Japanese (TAKAYAMA), 1885, A., 532; (FESCA and IMAI), 1889, A., 69.

Virginian, composition of the midribs of leaves of (MEMMINGER), 1884, A., 99.

(*Tobacco compounds Me=1.*)

Tobacco. See also Agricultural Chemistry.

Tobacco ash, composition of (ROMANS), 1883, A., 372; (ANON.), 1885, A., 927; (JORDAN; JENKINS), 1888, A., 177; (VAN BEMMELEN), 1890, A., 1338.

Tobacco smoke, toxic action of, on bacteria (TASSINARI), 1883, A., 1327.

wax-like body from (KISSLING), 1884, A., 173.

Tolallyl sulphide (BAUMANN and KIEFF), 1892, A., 135.

Tolane. See Diphenylacetylene.

Tolazinedicarboxylic acid, δ -lamido- (KEHRMANN), 1889, A., 1154.

***p*-Tolanylamidine derivatives** (GLOCK), 1888, A., 1290.

hydrochloride (CRAYEN), 1891, A., 560.

nitrite (LOSSEN), 1892, A., 53.

Tolanylamidinebenzenyl-*o*-carboxylic acid (BISPIZYKI), 1890, A., 969.

Tolanylamidinedimethoxybenzenyl-carboxylic acid (BISPIZYKI), 1891, A., 746.

***p*-Tolanylamidine-*p*-tolanylazosulphimecarbohydrosulphide** (CRAYEN), 1891, A., 560.

***p*-Tolanylamidosulphime-*p*-tolanylsulphime/thiocarbamate** (CRAYEN), 1891, A., 560.

***o*-Tolanylamidoxime and its derivatives** (SCHUBART), 1890, A., 49.

***p*-Tolanylamidoxime and its derivatives** (SCHUBART), 1886, A., 797; 1890, A., 47.

action of carbon disulphide on (CRAYEN), 1891, A., 559.

potassium compound of, action of carbon disulphide on (SCHUBART), 1890, A., 49.

3-nitro- (WEISE), 1890, A., 47.

***p*-Tolanylamidoxime-ethylidene** (SCHUBART), 1890, A., 48.

Tolanyazo- See Azo-

***p*-Tolanylethoxime salts** (SCHUBART), 1890, A., 47.

***p*-Tolanylimidoacetate and imidoethyl ether** (GLOCK), 1888, A., 1289.

***o*-Tolanylimidoximeamido-*o*-tolylidene** (STIEGLITZ), 1890, A., 255.

***p*-Tolanylimidoximecarbonyl** (SCHUBART), 1890, A., 48.

***p*-Tolanyphenyluramidoxime, -thio-uramidoxime and -uramidoxime** (SCHUBART), 1890, A., 48.

***p*-Tolhydroyl-amine** (*di-p-tolylcarbinyl-amine*) and -carbamide (GOLDSCHMIDT and STOCKER), 1891, A., 1479.

(*Toluene compounds* $Mc=1$.)

Tolidine (*duamidoditolyl*), polymethylene bases from (SCHIFF), 1892, A., 1223.

o-**Tolidine**, action of nitrous acid on (SCHULTZ), 1884, A., 903.
derivatives of (HOBBS), 1888, A., 708.

acetyl-derivatives of (GERBER), 1888, A., 484.

m-amido-, and *m*-nitro- (LOEWENHERZ), 1892, A., 852.

d-nitro- (GERBER), 1888, A., 484.

o-*m*-**Tolidine** (SCHULTZ), 1884, A., 903.

m-**Tolidine**, preparation of (v. BUCHKA and SCHACHTEBECK), 1889, A., 701.

p-**Tolidine**, action of nascent nitrous acid on (DENINGER), 1890, A., 38.

Tolidinedisulphonamide (HELLE), 1892, A., 1468.

o-**Tolidinedisulphonic acid** (GRIESS and DUISBERG), 1890, A., 60; (HELLE), 1892, A., 1466.

Tolidinesulphone (GRIESS and DUISBERG), 1890, A., 60.

Tolidinesulphonic acid (HELLE), 1892, A., 1467.

o-**Tolidinesulphonic acid** (GRIESS and DUISBERG), 1890, A., 60.

p-**Tolid** (*di-p-tolyl diketone*) (STIERLIN), 1889, A., 513.

Tolilbenzil, *o*- and *p*- (*benzil, tolylimide of; phenyl tolylimidobenzyl ketone*) (BANDROWSKI), 1889, A., 147.

o-**Tolilbenzoin** (*tolylimidodiphenylethyl alcohol*) (BANDROWSKI), 1889, A., 147.

p-**Tolilbenzoin** (VOIGT), 1886, A., 888.

Tolindole. See 3-Methylindole.

Toloctylamine (*octyltolylamine; tolyloctane, amido-*), and its derivatives (BERAN), 1885, A., 524.

m-**Tolualdehyde**, *o*-nitro-, and *d*-nitro- (BORNEMANN), 1884, A., 1163.

Tolualdehydes and their derivatives (BORNEMANN), 1884, A., 1161.

m-**Tolualdehydephenylhydrazones** (RUDOLPH), 1889, A., 251.

Tolualloxazine (KUHNING), 1891, A., 1342.

α-**Toluamide** (PURGOTT), 1891, A., 59.

o-**Toluamide**, reduction of (HUTCHINSON), 1890, T., 957.

3:5-*di*bromo- (CLAUS and BECK), 1892, A., 1207.

m-**Toluamide**, *ω*-chloro- (REINGLASS), 1891, A., 1344.

p-**Toluamide**, 3-amido- (NIEMENTOWSKI), 1888, A., 837.

2:6-*di*bromo- (CLAUS and SEIBERT), 1892, A., 176.

(*Toluene compounds* $Mc=1$.)

p-**Toluamide**, 3:5-*di*nitro- (CLAUS and HERBANY), 1892, A., 175.

3:5-*di*bromonitro- (CLAUS and HERBANY), 1892, A., 175.

2- and 3-chloro- (CLAUS and DAVIDSEN), 1889, A., 988.

ω-chloro-, and *ω*-cyano- (MELLINGHOFF), 1890, A., 239.

3-nitro- (NIEMENTOWSKI and ROZANSKI), 1888, A., 1088; (WEISE), 1890, A., 47.

p-**Toluanilide** (LEUCKART), 1890, A., 759.

Toluazophenine (FISCHER and HEPP), 1891, A., 1046.

p-**Tolubenzylacetamide** (*tolylcarbinylacetamide; methylbenzylacetamide*) (KROBER), 1890, A., 969.

o-**Tolubenzylamine**. See Methylbenzylamine.

p-**Tolubenzylcarbamide** (*tolylcarbinylcarbamide; methylbenzylcarbamide*) (KROBER), 1890, A., 969.

o-**Toluisobutylthiocarbamide** (*disobutyliditolylthiocarbamide*) (EFFRONT), 1885, A., 153, 154.

Tolucarbostyryl. See Methylcarbostyryl.

Toluene (*methylbenzene*), coal-tar (MEYER), 1883, A., 1092.

formation of, from benzylic bromide (GLADSTONE and TRIBE), 1885, T., 453.

dispersive power of (BARBIER and ROUX), 1889, A., 805.

refractive power of, at different temperatures (PERKIN), 1892, T., 297.

action of the induction spark on (DENFREM), 1884, A., 1243.

action of heat on, and on a mixture of ethylene and (FERKU), 1887, A., 572.

action of amyl chlorides and amylene on (ESSENER and GOSIN), 1885, A., 517.

action of chloropierin and chloroform on, in presence of aluminium chloride (ELBS and WITTICH), 1885, A., 517.

action of ethylic diazoacetate on (BUCHNER and CURTIUS), 1885, A., 1208.

action of lead oxide on (VINCENT), 1890, A., 962.

action of methylenic chloride on, in presence of aluminium chloride (FRIEDEL and CRAFTS), 1884, A., 1312; 1887, A., 1102.

bromination of (MILLER), 1892, T., 1023.

(*Toluene compounds Me=1.*)

Toluene (*methylbenzene*), chlorination of (SEELIG), 1887, A., 362.

purest, of commerce, sulphur compound in (MEYER and KREIS), 1884, A., 46.

halogen derivatives of (WILLGERODT and SALZMANN), 1889, A., 985.

physical constants of (SEUBERT), 1890, A., 2.

tetra- and *hera-*hydrides from resin essences (RENARD), 1884, A., 844.

Toluene, amido-. See Toluidine.

diamido-. See Tolylenediamine.

c-tetramido-, and its sulphate (NITZKI and ROSER), 1891, A., 192.

pentamido- (PALMER), 1889, A., 390.

o-bromo-, preparation and properties of (MILLER), 1892, T., 1027; P., 155.

action of chromyl dichloride on (STUART and ELLIOTT), 1888, T., 803.

bromination of (MILLER), 1892, T., 1031; P., 155.

oxidation of, with potassium ferricyanide (NOYES), 1886, A., 142.

m-bromo-, oxidation of (NOYES and WALKER), 1886, A., 788.

p-bromo-, preparation and properties of (MILLER), 1892, T., 1026; P., 155.

melting point of (NEHNST), 1890, A., 3.

action of chlorine on (SRPEK), 1891, A., 44; (ERRERA), 1891, A., 1020.

bromination of (MILLER), 1892, T., 1032; P., 155.

3:6-bromonitro- (BENTLEY and WARREN), 1890, A., 485.

2:5:4:6-dibromonitro- (ULAU), 1888, A., 583.

3:5-dibromonitro- (PALMER), 1889, A., 390.

o-chloro- (SEELIG), 1887, A., 362.

action of chromyl dichloride on (STUART and ELLIOTT), 1888, T., 803.

sulphonation of (WYNNE), 1892, T., 1072; P., 140.

m-chloro-, sulphonation of (WYNNE), 1892, T., 1075; P., 140.

p-chloro-, melting point of (NEHNST), 1890, A., 3.

sulphonation of (WYNNE), 1892, T., 1078; P., 140.

2:3- and 2:4-dichloro- (SEELIG), 1887, A., 363.

2:4-dichloro-, preparation of (ERDMANN), 1891, A., 1462.

(*Toluene compounds Me=1.*)

Toluene, 2:5-dichloro- (WYNNE), 1892, T., 1050; P., 139.

3:4-dichloro-, preparation of (ERDMANN), 1891, A., 1462.

sulphonation of (WYNNE), 1892, T., 1060; P., 139.

2:4-, 2:5-, 3:4- and 3:5-dichloro- (LELMANN and KLOTZ), 1886, A., 452.

2:3:4- and 2:4:5-trichloro- (SEELIG), 1885, A., 769.

3:4:5-trichloro- (WYNNE), 1892, T., 1070; P., 139.

pentachloro- (SEELIG), 1885, A., 770.

o-chlorodibromo-, and *di-*, *tri-* and *tetra-chloro-p-bromo-* (WILLGERODT and SALZMANN), 1889, A., 986.

2:4-chloronitro- (LELMANN), 1884, A., 1133.

2:5-chloronitro- (GOLDSCHMIDT and HÖNIG), 1887, A., 363; (HÖNIG), 1887, A., 1034.

2:6-chloronitro- (GREEN and LAWSON), 1891, T., 1017; P., 129.

3:5-chloronitro- (HÖNIG), 1887, A., 1034.

4:2-chloronitro- (GOLDSCHMIDT and HÖNIG), 1886, A., 1022.

4:3-chloronitro-, and its reduction products (GATTERMANN and KAISER), 1886, A., 49.

4:2:3-, 4:2:6- and 4:3:5-chlorodinitro- (HÖNIG), 1887, A., 1034.

2:4-dichloronitro- (SEELIG), 1887, A., 363.

2:3:4- and 2:4:5-trichloronitro- (SEELIG), 1885, A., 769.

cyano-. See Toluonitrile.

p-fluoro- (PATERNO and OLIVERI), 1884, A., 426; (WALLACH), 1887, A., 130.

o-iodo-, action of chromyl dichloride on (STUART and ELLIOTT), 1888, T., 803.

ω-nitro- (GABRIEL), 1885, A., 903; (GABRIEL and KOPPE), 1886, A., 693.

o-nitro- (STRENG), 1891, A., 1197.

action of chlorine on, in presence of sulphur (HAEUSSERMANN and BECK), 1892, A., 1437.

action of chromyl dichloride on (v. RICHTER), 1886, A., 694.

oxidation of, by potassium ferricyanide (NOYES), 1886, A., 577.

fractional reduction of (MINIATI, BOOTH and COHEN), 1888, A., 202.

(Toluene compounds $Me=1$.)

- Toluene**, *m*-nitro-, preparation of (V. БУЧКА), 1889, A., 696.
 oxidation of (NOYES and MOSES), 1886, A., 143.
 reduction products of (V. БУЧКА and SCHACHIEBECK), 1889, A., 701.
p-nitro-, action of chromyl dichloride on (V. RICHTER), 1886, A., 694.
 oxidation of, by potassium ferricyanide (NOYES), 1883, A., 577.
 fractional reduction of (MINIATI, BOOTH and COHEN), 1888, A., 202.
 estimation of (NEVERDIN and DE LA HARPE), 1889, A., 84.
 2:1-dinitro-, liquid bye-product in the preparation of (NORTING and WITT), 1885, A., 1095.
 2:5-dinitro- (NIETZKI and GUERMANN), 1888, A., 471.
 2:6-dinitro- (CLAUS and BECKER), 1883, A., 1093; (STAEDEL), 1885, A., 142.
 3:5-dinitro-, constitution of (STAEDEL), 1883, A., 865.
 preparation of (STAEDEL), 1883, A., 864, 865.
 2:4:6-trinitro- (CLAUS and BECKER), 1883, A., 1093.
 α -, β - and γ -trinitro- (HEPP), 1883, A., 317.
 compounds of, with hydrocarbons (HEPP), 1883, A., 318.
 2:5-dinitroso- (MEHNE), 1888, A., 463; (NIETZKI and GUERMANN), 1888, A., 471.
Toluene-aniline, α trinitro- (HEPP), 1883, A., 317.
Tolueneazimidotoluene (ZINCKE and LAWSON), 1887, A., 731.
Tolueneazo-. See Azo-.
Toluenecinnamene (WISPEK and ZUBER), 1883, A., 977; (KRAMER, SPILKER and EBERTHAUPT), 1891, A., 207.
Toluenecyano-sulphochloride, and -sulphonic acid (ANON.), 1890, A., 382.
Toluenedicarboxylic acid. See Methylphthalic acid.
Toluene-3:5-disulphonic acid, 2-bromo- (KORNATZKI), 1884, A., 70; (LIMPRICHT), 1885, A., 1233; (HASSE), 1886, A., 151.
p-iodo- (LIMPRICHT), 1885, A., 1233; (RICHTER), 1886, A., 152.
Toluene-2:6-disulphonic acid (KORNATZKI), 1884, A., 70.
Toluenedisulphonic acids (LAWSON), 1887, A., 264, 491.

(Toluene compounds $Me=1$.)

- Toluenedisulphonic acids**, *p*-bromo-, and their derivatives (KORNATZKI), 1881, A., 70; (RICHTER), 1886, A., 152.
Toluenedisulphothiosulphonic anhydride. See Sulphotolylic disulphide.
p-Toluenehydrazo-*p*-cresol (GOLDSCHMIDT and POLLAK), 1892, A., 974.
m-Toluene- β -methylcoumarin (V. PECHMANN and DUISBERG), 1884, A., 67.
Toluenenaphthalenes, *di*- and *tri*-nitro- (HEPP), 1883, A., 318.
Toluenesulphamine (PAYSON), 1881, A., 451; (HEFFTER), 1884, A., 455.
Toluenesulphinic acids (PERL), 1885, A., 391.
Toluenesulphonamic acid (TRAUBE), 1890, A., 1137.
Toluene-*o*-sulphonamide, 4-chloro- (HEFFTER), 1884, A., 73.
Toluene-*m*-sulphonamide (NOYES and WALKER), 1886, A., 788.
Toluene-*p*-sulphonamide, oxidation of, with potassium ferricyanide (NOYES), 1886, A., 142.
Toluenesulphonic acid, 3-chloro-, and its amide and chloride (WYNNE), 1892, T., 1075.
 2:5-dichloro-, and its metallic salts and amide and chloride (WYNNE), 1892, T., 1051; P., 139.
 3:4-dichloro-, and its amide and chloride (WYNNE), 1892, T., 1061; P., 139.
 hydrolysis of (WYNNE), 1892, T., 1068; P., 139.
 3:4:5-trichloro-, and its metallic salts and chloride (WYNNE), 1892, T., 1069; P., 139.
o-iodo- and its salts (MABERY and PALMER), 1885, A., 538.
Toluene-*m*-sulphonic acid and its derivatives (VALLIN), 1887, A., 263.
Toluene-*p*-sulphonic acid and its derivatives (VALLIN), 1887, A., 263.
 action of bromine on (MILLER), 1886, P., 235.
 amine salts of (NORTON and OTTEN), 1888, A., 698.
 barium salt of (KILBE), 1883, A., 807.
 potassium salt of, bromination of (MILLER), 1892, T., 1027; P., 155.
 2-bromo- (MILLER), 1892, T., 1027; P., 155.
 2:3:5-tribromo- (CLAY and IMMER), 1891, A., 1490.
Toluene-2-sulphonic acid, 4-bromo-, and its salts (DE ROODE), 1891, A., 1227.

- (*Toluene compounds* $M_r=1$.)
- Toluene-2-sulphonic acid**, 4-chloro-, and its salts (DE ROODE), 1891, A., 1227; (WYNNE), 1892, T., 1078; P., 140.
- 4-iodo- (*o*-(8)-*acid*) and its salts (DE ROODE), 1891, A., 1227.
- 4-fluoro- and its amide (DE ROODE), 1891, A., 1226.
- 4-nitro- (HAUSSEN), 1891, A., 73.
- Toluene-3-sulphonic acid**, 4-chloro-, and its amide (WYNNE), 1892, T., 1078; P., 140.
- Toluene-4-sulphonic acid**, 2-bromo- (MILLER), 1892, T., 1023; P., 155.
- 2-chloro-, and its amide (PAYSAN), 1884, A., 73.
- Toluene-5-sulphonic acid**, 2-bromo-, and its amide (MILLER), 1892, T., 1030; P., 155.
- 2-bromo-, and its chloride, bromide and amide (WYNNE), 1892, T., 1041; P., 155.
- 2:3-*d*/bromo-, and its salts, and chloride, bromide and amide (WYNNE), 1892, T., 1038; P., 155.
- 2-chloro-, and its salts and chloride and amide (WYNNE), 1892, T., 1040, 1072; P., 139, 140.
- 2-nitro- (LIMPRICHT), 1885, A., 1234; (FOTH), 1886, A., 153.
- Toluene- ω -sulphonic acid** (*benzylsulphonic acid*), derivatives of (MOHN), 1884, A., 69.
- 4-bromo- (JACKSON and HARTSHORN), 1884, A., 665.
- Toluenesulphonic acids**, isomeric, formation of (GORDON), 1888, P., 73.
- Toluene-*p*-sulphonic chloride**, condensation of amido-acids with (HEDIN), 1891, A., 203.
- p*-Toluenesulphonic iodide** (OTTO and TRÖGER), 1891, A., 718.
- Toluenesulphothiosulphonic anhydride** (OTTO and TRÖGER), 1891, A., 921.
- Toluenethiosulphonic acid**, reactions of (OTTO and ROSSING), 1892, A., 478.
- Toluene- ω -thiosulphonic acid** (*benzylthiosulphonic acid*), sodium salt of (PURGOTTI), 1890, A., 1419.
- Toluenethiosulphonic acids** and their salts, action of ethylic chlorocarbonate on (OTTO and ROSSING), 1891, A., 926.
- Toluenethiosulphonic thioanhydride** (OTTO and TRÖGER), 1891, A., 924.
- Toluic acid**, nitrosulpho- (LIMPRICHT), 1885, A., 1234.
- α -Toluic acid**. See Phenylacetic acid.
- o*-Toluic acid** (*methylbenzoic acid*) (RACINE), 1887, A., 945.
- (*Toluene compounds* $M_r=1$.)
- o*-Toluic acid** (*methylbenzoic acid*), derivatives of (JACOBSEN and WIERS), 1883, A., 1121; (RACINE), 1887, A., 945.
- 5-amido-, phosphate of (HONIG), 1886, A., 242.
- 4-bromo- (JACOBSEN), 1885, A., 143; (CLAUS and PIERSZCZAK), 1887, A., 240; (CLAUS and KUNATH), 1889, A., 987.
- 5-bromo- (NOTTRISSEN), 1887, A., 668; (CLAUS and KUNATH), 1889, A., 987.
- nitration and bromination of (CLAUS and BECK), 1892, A., 1207.
- 4:5- and 3:5-*d*bromo-, and 5:3-, 5:4- and 5:6-bromonitro- (CLAUS and BECK), 1892, A., 1207.
- 4-, 5- and 6-nitro- (JACOBSEN), 1884, A., 715.
- m*-Toluic acid** (SPICA), 1883, A., 459; (MULLER), 1887, A., 724.
- 2-amido-, and its derivatives (*p*-methylanthranilic acid) (PANAGOTOVIC), 1886, A., 361.
- ω -amido- (REINGLAS), 1891, A., 1345.
- 4-chloro- (CLAUS), 1892, A., 1201.
- ω -chloro- (REINGLAS), 1891, A., 1344.
- 4:6-*d*ichloro- (CLAUS and BURNERT), 1890, A., 1106.
- nitro-, from nitro-*m*-isocymene (KELBE and WARTH), 1884, A., 46.
- 5-nitro- (TÖHL), 1885, A., 522.
- p*-Toluic acid**, 3-amido- (*m*-homooanthranilic acid) (NIEMENTOWSKI), 1888, A., 337; 1889, A., 1065; (NIEMENTOWSKI and ROZANSKI), 1888, A., 1088; (NOYES), 1889, A., 391; (FILETI and CROSA), 1889, A., 495.
- 2:3-, 2:6- and 3:6-*d*iamido- (CLAUS and JOACHIM), 1892, A., 176.
- 2- and 3-bromo- (CLAUS and KUNATH), 1889, A., 987.
- 3-bromo- (FILETI and CROSA), 1889, A., 496.
- 2:5-*d*bromo-, and its salts (SCHULTZ), 1885, A., 1054.
- 2:3-, 2:5- and 3:5-*d*bromo- (CLAUS and HERBANY), 1892, A., 175.
- 2:6-*d*bromo- (CLAUS and SEIBERT), 1892, A., 176.
- 3:6-*d*bromo- (FILETI and CROSA), 1889, A., 496; (CLAUS and BEYSEN), 1892, A., 177.
- 3:6-bromamido- (FILETI and CROSA), 1889, A., 495.
- 3:2-, 3:5- and 3:6-bromonitro- (CLAUS and HERBANY), 1892, A., 174.
- 3:6-bromonitro- (FILETI and CROSA), 1887, A., 37; 1889, A., 495.

(*Toluene compounds Me=1.*)

- p*-Toluic acid, 6:2- and 6:3-bromonitro- (CLAUS and BEYSEN) 1892, A., 178.
o-chloro- (MELLINGHOFF), 1890, A., 239.
 2- and 3-chloro- (CLAUS and DAVIDSEN), 1889, A., 988.
 2:6-dichloro- (CLAUS and BEYSEN), 1892, A., 178.
 3:6-dichloro- (CLAUS and DAVIDSEN), 1892, A., 172.
 3:6-chloramido- (CLAUS and DAVIDSEN), 1892, A., 172.
 2:5-chloramido- (CLAUS and BÖCHER), 1892, A., 173.
 chlorobromo- and chlorobromonitro- (WILLGERODT and WOLFIEN), 1889, A., 966.
 3:6-chlorobromo- (CLAUS and DAVIDSEN), 1892, A., 173.
 2:3- and 2:5-chloronitro- (CLAUS and BÖCHER), 1892, A., 174.
 2:6-chloronitro- (CLAUS and BÖCHER), 1892, A., 174; (CLAUS and BEYSEN), 1892, A., 178.
 3:2-chloronitro- (CLAUS and DAVIDSEN), 1892, A., 173.
 3:6-chloronitro- (FILETI and CROSA), 1889, A., 496; (CLAUS and DAVIDSEN), 1889, A., 988; 1892, A., 172.
 3-chloro-2:6-dinitro- (CLAUS and DAVIDSEN), 1889, A., 988.
o-cyano- (MELLINGHOFF), 1890, A., 240.
 2-nitro- (NOYES), 1889, A., 395.
 3-nitro- (NIEMENTOWSKI and ROZAŃSKI), 1888, A., 1038; (NOYES), 1889, A., 394.
 2:3- and 3:6-dinitro- (ROZAŃSKI), 1890, A., 52.
 2:3-, 2:6- and 3:6-dinitro- (CLAUS and JOACHIM), 1892, A., 176.
 3:5-dinitro- (CLAUS and BEYSEN), 1892, A., 177.
 6:3-nitramido- (FILETI and CROSA), 1889, A., 495.
 2:6- and 3:6-nitramido- (CLAUS and BEYSEN), 1892, A., 177.
 3-sulpho-, and its derivatives (RANDALL), 1891, A., 1228.
 3-sulphamido- (WEBER), 1892, A., 1092.

Toluic acids, thermochemistry of (STOHMANN, KLEBER and LANGBEIN), 1889, A., 1096.

p-Toluic anhydride, 3-sulpho- (RANDALL), 1891, A., 1229.

p-Toluic sulphinide ("methylaccharin") (ANON.), 1890, A., 382; (RANDALL), 1891, A., 1228; (WEBER), 1892, A., 1092.

(*Toluene compounds Me=1.*)

- Toluide, sulpho- (*di-p-tolylsulphone*), decomposition of (OTTO), 1886, A., 1031.
 Toluidine, last runnings obtained in the purification of (HELL and ROCKENBACH), 1889, A., 600.
 naphthate and phenate (DYSON), 1883, T., 468.
o-Toluidine, action of benzylic chloride on (RABAUT), 1892, A., 48.
 influence of nucleal methyl on the properties of (ROSENSTIEHL), 1892, A., 1319.
 and furfuraldehyde, condensation of (DE CHALMOT), 1892, A., 1452.
 methylation and ethylation of (REINHARDT and STAEDEL), 1883, A., 578.
 nitration of (NOLTING and COLLIN), 1884, A., 1012.
 sulphonation of (CLAUS and IMMEL), 1891, A., 1490.
 chloracetate (BISCHOFF), 1888, A., 727.
 hydrobromide and hydriodide (STAEDEL), 1883, A., 578.
 hydrochloride, spectrum of (HARTLEY), 1885, T., 739.
 ethylmalonate, action of phosphorus pentachloride on (RUGHEIMER and SCHRAMM), 1888, A., 502.
 malate (BISCHOFF and NASTVOGEL), 1890, A., 1163.
 hydrogen sulphate (WELLINGTON and TOLLENS), 1886, A., 347.
 hydrogen diaminechromium thiocyanate (CHRISTENSEN), 1892, A., 1000.
 detection of small quantities of *p*-toluidine in (HAEUSERMANN), 1888, A., 203.
o-Toluidine, 5-bromo- (ALT), 1889, A., 1211.
 chloro-, conversion of, into chlorotoluene (WYNN), 1892, T., 1047; P., 139.
 conversion of, into dichlorotoluene (WYNN), 1892, T., 1019; P., 139.
 1-chloro- (GOLDSCHMIDT and HONIG), 1886, A., 1022.
 2:3:4- and 2:4:5-trichloro- (SEELIG), 1885, A., 769.
 cyano-, and its salts (BLADIN), 1884, A., 1142.
 3-nitro- (LELLMANN and WURFNER), 1885, A., 974.
 action of reducing agents on (GRAEFF), 1885, A., 1127.

(*Toluene compounds Me=1.*)
o-Toluidine, 4-nitro- (NÖLTING and COLLIN), 1884, A., 1006, 1012; (LEVINSTEIN), 1885, A., 1127; (GREEN and LAWSON), 1891, T., 1015.
 reduction of (GREEN and LAWSON), 1891, T., 1016.
 displacement of the amido-group in, by chlorine (GREEN and LAWSON), 1891, T., 1017; P., 129.
 derivatives of (NÖLTING and COLLIN), 1884, A., 1006.
 5-nitro- (LELLMANN and WÜRTNER), 1885, A., 974; (GREEN and LAWSON), 1891, T., 1013.
 6-nitro- (BERTHSEN), 1883, A., 579; (GREEN and LAWSON), 1891, T., 1013.
 from liquid dinitrotoluene (BERTHSEN), 1883, A., 579; (ÜLLMANN), 1884, A., 1316.
 reduction of (GREEN and LAWSON), 1891, T., 1016.
 displacement of the amido-group in, by chlorine (GREEN and LAWSON), 1891, T., 1017; P., 129.
 3:5-dinitro- (STAEDEL), 1883, A., 865; (BARK), 1888, A., 823.
 ω-nitroso- (MEYER), 1886, A., 63.
 5-nitroso- (MEHNE), 1888, A., 463.
 o-thionyl- (MICHAELIS), 1891, A., 717.
m-Toluidine, preparation of (EHRlich), 1883, A., 54.
 nitration of (NÖLTING and STOECKLIN), 1891, A., 692.
 4-bromo- (CLAUS), 1892, A., 1201.
 4-chloro- (GATTERMANN and KAISER), 1886, A., 49; (GOLDSCHMIDT and HÖNIG), 1886, A., 1022; (CLAUS), 1892, A., 1201.
 5-chloro- (HÖNIG), 1887, A., 1034.
 6-chloro-, and its derivatives (GOLDSCHMIDT and HÖNIG), 1887, A., 363.
 cyano-, and its salts (BLADIN), 1884, A., 1142.
 2-nitro- (LIMPRICHT), 1885, A., 974.
 action of reducing agents on (GRAEFF), 1885, A., 1127.
 4-nitro- (STAEDEL and KOLB), 1891, A., 187.
 5-nitro- (STAEDEL), 1883, A., 865.
 6-nitro- (FILETI and CROSA), 1889, A., 495.
 4:6-dinitro- (HEPP), 1883, A., 317; (STAEDEL and KOLB), 1891, A., 187.
 2:4:6-trinitro- (NÖLTING and v. SALIS), 1883, A., 59.
 6-nitroso- (MEHNE), 1888, A., 463.

(*Toluene compounds Me=1.*)
p-Toluidine, production of, from *p*-cresol (BUCH), 1885, A., 147.
 spectrum of (HARTLEY), 1885, T., 741.
 action of benzylic chloride on (RABAUT), 1892, A., 313.
 action of bromine on, in presence of sulphuric acid (HAFNER), 1890, A., 137.
 diazotised, action of, on methyl-*p*-bromaniline (MELDOLA and STREATFIELD), 1889, T., 433.
 diazotised, action of, on methyl-*p*-chloraniline (MELDOLA and STREATFIELD), 1889, T., 436.
 action of sulphur on (GREEN), 1889, T., 228.
 nitration of (NÖLTING and COLLIN), 1884, A., 1012.
 oxidation of (KLINGER and PITSCHKE), 1885, A., 151.
 from *p*-nitrobenzaldehyde, condensation products of (BISCHLER), 1888, A., 287.
 citric acid derivatives of (GILL), 1887, A., 40.
 azophenine of (NÖLTING and WITT), 1884, A., 743.
 chloracetate (BISCHOFF), 1888, A., 726.
 allocinnamate (LIEBERMANN), 1891, A., 333.
 hydrate (LEWY), 1887, A., 134.
 hydrobromide and hydriodide (STAEDEL), 1883, A., 578.
 oxalate (BORNEMANN), 1890, A., 137.
 picrate (SMOLKA), 1886, A., 454.
 sulphate as a test for nitric acid (LONGI), 1884, A., 365.
 hydrogen sulphate (WELLINGTON and TOLLENS), 1886, A., 347.
 commercial, assay of (RAABE), 1892, A., 925.
 estimation of (SCHOEN), 1890, A., 839.
p-Toluidine, 3:5-di-bromo- (CLAUS and HERBANY), 1892, A., 175.
 3:5:6-tri-bromo- (CLAUS and IMMEL), 1891, A., 1491.
 3:5-bromonitro- (HÄND), 1886, A., 1018.
 3:6-bromonitro- (CLAUS and HERBANY), 1892, A., 171.
 chloro-, conversion of, into chlorotoluene (WYNNE), 1892, T., 1053; P., 139.
 2-chloro- (WITT), 1892, A., 445.
 3-chloro- (ERDMANN), 1891, A., 1466.
 2:5-chloronitro- (CLAUS and BOCHER), 1892, A., 173.

- (*Toluene compounds* $Me=1$.)
- p*-Toluidine, 3:5- and 3:6-chloronitro- (CLAUS and DAVIDSEN), 1892, A., 172.
 cyano-, and its salts (BLADIN), 1884, A., 1141.
 2-nitro- (BERNHUSEN), 1883, A., 579; (NÖLTING and COLLIN), 1884, A., 1012; (ULLMANN), 1884, A., 1316; (LEVINSTEIN), 1885, A., 1127.
 3-nitro- (NÖLTING and COLLIN), 1884, A., 1012.
 action of ethylenic bromide on (GATTERMANN and ILGER), 1884, A., 1142.
 action of reducing agents on (LIMPRICHT), 1885, A., 974; (GRAEFF), 1885, A., 1127.
 derivatives of (GATTERMANN), 1885, A., 975.
 oxalic acid derivatives of (HINSBERG), 1883, A., 323.
β-*λ*-nitro- (HEFF), 1883, A., 317.
 3:5-*λ*-nitro, constitution of (STÄDEL), 1883, A., 865.
 thio-, and its derivatives (TRUHLAR), 1887, A., 472.
 thionyl- (MICHAELIS and HERZ), 1891, A., 310.
- Toluidines** (LEWY), 1886, A., 872.
 heat of formation of (PETIT), 1888, A., 1239.
 action of benzylic chloride on (RABATT), 1892, A., 313.
 action of *λ*-brom- α -naphthol on (MELDOLA), 1884, T., 156.
 action of cyanogen on (BLADIN), 1884, A., 1111.
 isomeric, action of *μ*-diazobenzene-sulphonic acid on (GRUBBS), 1883, A., 182.
 action of nascent nitrous acid on (DENINGER), 1890, A., 38.
 action of sulphur on (GATTERMANN), 1889, A., 602.
 chlorination of, and bromination of, in presence of an excess of a mineral acid (HAFNER), 1890, A., 37.
 physiological action of (FIBBS and HARE), 1890, A., 1018.
 compounds of, with cupric chloride (POMÉY), 1887, A., 472.
 compounds of metallic sulphites with (DENIGES), 1891, A., 1031.
 compounds of, with zinc chloride (LACHOWICZ and BANDROWSKI), 1888, A., 1281.
 quantitative analysis of (MINIATI, L. BOOTH and COHEN), 1888, A., 202.
- (*Toluene compounds* $Me=1$.)
- Toluidines**, separation of (WULFING), 1886, A., 1021; 1887, A., 576.
 separation of, from aniline (LEWY), 1884, A., 46.
- o*-Toluidinealloxan (PELLIZZARI), 1888, A., 682.
- o*-Toluidine-3:5-disulphonic acid (LIMPRICHT), 1884, A., 1232; (HASSE), 1886, A., 150.
- p*-Toluidine-2:3- and -2:6-disulphonic acids and their salts (RICHTER), 1886, A., 151.
- o*-Toluidine-*p*-sulphinic acid and its salts (PAYSAN), 1884, A., 454.
- p*-Toluidine-*o*-sulphinic acid and its salts (HEFFER), 1884, A., 454.
- o*-Toluidine-*p*-sulphonamide (PAYSAN), 1884, A., 72.
- p*-Toluidine-*o*-sulphonamide (HEFFTER), 1884, A., 73.
- Toluidinesulphonic acid**, amido-. See **Tolylenediaminesulphonic acid**.
- o*-Toluidinesulphonic acid, action of nascent nitrous acid on (DENINGER), 1890, A., 39.
- o*-Toluidine-4-sulphonic acid, and 3:5-*λ*-biomo- (CLAUS and IMMEL), 1891, A., 1490.
- o*-Toluidine-5-sulphonic acid (HASSE), 1886, A., 150; (FORH), 1886, A., 153; (JANOVSKY), 1888, A., 956; (CLAUS and IMMEL), 1891, A., 1490; (WYNNE), 1892, T., 1037; P., 155.
- salts of (WYNNE), 1892, T., 1037; P., 155.
- 3-biomo- (CLAUS and IMMEL), 1891, A., 1490; (WYNNE), 1892, T., 1037; P., 155.
- 4-iodo-, and its barium salt (LIMPRICHT), 1885, A., 1231; (FORH), 1886, A., 153.
- 3-nitro- (NIEZKI and POLLINI), 1890, A., 502.
- m*-Toluidine-6-sulphonic acid (CLAUS and IMMEL), 1891, A., 1490.
- p*-Toluidine-2-sulphonic acid (LIMPRICHT), 1885, A., 1233; (JANOVSKY), 1888, A., 956.
- 3-nitro- (NIEZKI and POLLINI), 1890, A., 502.
- p*-Toluidine-2- and -3-sulphonic acids, separation of (SCHNEIDER), 1887, A., 146.
- p*-Toluidine-3-sulphonic acid (LIMPRICHT), 1885, A., 1233; (JANOVSKY), 1888, A., 956.
- p*-Toluidine-5-sulphonic acid, 2-nitro-, and its salts (LIMPRICHT), 1885, A., 1233; (FORH), 1886, A., 152.

(Toluene compounds $Me=1$.)

- p*-Toluidine-5-sulphonic acid, 3-nitro- (NIEZKI and POLLINI), 1890, A., 502.
- o*-Toluidine-*p*-thiosulphonic acid (PAY-SAN), 1884, A., 453.
- p*-Toluidine-*o*-thiosulphonic acid (HEFF-TER), 1884, A., 454.
- Toluido-. See Tolylamido-.
- Toluidylmelamine (FRIES), 1886, T., 742.
- Toluisatin (*ditoloxindole*) and its derivatives (v. BAAYER and LAZARUS), 1886, A., 154.
- Tolunaphthazines, isomeric, constitution of (WRTT), 1887, A., 591.
- Tolunitranilic acid (4-nitro-3:6-dihydroxytoluquinone) (KEHRMANN), 1888, A., 940; (KEHRMANN and BRASCH), 1889, A., 969.
- p*-Toluoic (STIERLIN), 1889, A., 513.
- o*-Toluoitrile from formo-*o*-toluidide (GASIOROWSKI and MERZ), 1884, A., 734.
- heats of combustion and formation of (BERTHELOT and PETIT), 1889, A., 812.
- ω -bromo- (DRORY), 1891, A., 1461.
- 5-bromo- (NOURISON), 1887, A., 668; (CLAUS and KUNATH), 1889, A., 987.
- 3:5-dibromo- (CLAUS and BECK), 1892, A., 1207.
- ω -chloro- (GABRIEL and OTTO), 1887, A., 1035; (DRORY), 1891, A., 1460.
- di*- ω -chloro- (GABRIEL and WEISE), 1888, A., 261.
- p*-Toluoitrile from formo-*p*-toluidide (GASIOROWSKI and MERZ), 1884, A., 734.
- 3-amido- (NIEMENTOWSKI), 1888, A., 837; (GLOCK), 1888, A., 1291.
- 2-bromo- (CLAUS and KUNATH), 1889, A., 987.
- 2:6-dibromo- (CLAUS and SEIBERT), 1892, A., 176.
- 3:5-dibromo- (CLAUS and HERBANY), 1892, A., 175.
- 3:5- and 3:6-bromonitro- (CLAUS and HERBANY), 1892, A., 175.
- 2- and 3-chloro- (CLAUS and DAVIDSEN), 1889, A., 988.
- di*- ω -chloro- (GABRIEL and WEISE), 1888, A., 261; (REINGLASS), 1891, A., 1344.
- 2:5-chloronitro- (CLAUS and BOCHER), 1892, A., 173.
- 3:6-chloronitro- (CLAUS and DAVIDSEN), 1892, A., 172.
- 3-nitro- (LEUCKART), 1886, A., 351; (NIEMENTOWSKI), 1888, A., 837; (WEISE), 1890, A., 47.

(Toluene compounds $Me=1$.)

- p*-Toluoitrile, 3 5-dinitro- (CLAUS and BEYSEN), 1892, A., 177.
- Toluoylazimide (NIEMENTOWSKI), 1888, A., 837.
- p*-Toluoyl-*o*-benzoic acid (FRIEDEL and CRAFTS), 1889, A., 242.
- trichloro*- (LE ROYER), 1887, A., 832.
- o*-Toluoylcyanocamphor (HALLER), 1891, A., 1499.
- p*-Toluoyl-ethylamide and -methylamide (GATTERMANN and SCHMIDT), 1887, A., 358.
- p*-Toluoyl- β -propionic acid (CLAUS and SCHLARN), 1887, A., 827; (BURCKER), 1888, A., 951.
- o*-Toluoyl-*o*-tolenylamidoxime (STIFGLITZ), 1890, A., 255.
- p*-Toluoyl-*p*-toluidide (LEUCKART), 1890, A., 759.
- o*-Toluoylxlyide (SMITH), 1892, A., 491.
- Toluphenanthrazine, bromo- (HARTMANN), 1890, A., 976.
- α -Toluphosphinic acid and its derivatives (WELER), 1887, A., 825.
- p*-Toluphosphonic acid (WELER), 1888, A., 836.
- Toluphosphonic acids, α - and β -, derivatives of (WELER), 1888, A., 835.
- Toluoquinaldine. See Dimethylquinoline.
- 2:5-Toluoquinol (*hydrotoluoquinone*) (SCHNITER), 1887, A., 1036.
- compounds of, with amines (HEBERBRAND), 1888, A., 60.
- and methyl ethers of, and their condensation products (NIETZER), 1883, A., 467.
- 4:6-diamido- (KEHRMANN and BRASCH), 1889, A., 970.
- 4-bromo- (SCHNITER), 1887, A., 1036.
- di*-bromo- (CANZONERI and SPICA), 1883, A., 331.
- β -chloro- (SCHNITER), 1887, A., 1036.
- trichloro*- (CLAUS and RUMMANN), 1883, A., 1112.
- α - and β -chlorobromo- (SCHNITER), 1887, A., 1036.
- 3-iodo- (KEHRMANN), 1889, A., 993.
- di*nitro- (WENDER), 1890, A., 752.
- 4:6-dinitro- (KEHRMANN and BRASCH), 1889, A., 969.
- nitramido- (KEHRMANN and BRASCH), 1889, A., 970.
- Toluoquinoline. See Methylquinoline.
- 2:5-Toluoquinone (SCHNITER), 1887, A., 1036.
- compound of, with *o*-nitraniline (HEBERBRAND), 1888, A., 61.
- 3-bromo- (CLAUS and JACKSON), 1889, A., 128.
- 4-bromo- (SCHNITER), 1887, A., 1036.

(*Toluene compounds Me=1.*)
 2:5-Toluquinone, *di-* and *tri-*bromo- (CANZONERI and SPICA), 1883, A., 330.
tribromo-, action of potassium hydroxide on (SPICA and MAGNANIMI), 1884, A., 175.
 α -chloro- (CLAUS and SCHWEITZER), 1886, A., 614.
 β -chloro- (SCHNITZER), 1887, A., 1036.
 3:4:6-trichloro- (CLAUS and RIMMANN), 1883, A., 1112.
 α - and β -chlorobromo- (SCHNITZER), 1887, A., 1036.
 3-iodo-, and 4:6-di-iodo- (KEHRMANN), 1889, A., 993.
 Toluquinonechlorimide [m.p. 88°] and its derivatives (HIRSCH), 1885, A., 892.
 [m.p. 75°] (STAEDEL and KOLD), 1891, A., 187.
 Toluquinoneoxime. See Nitroso-o-cresol.
 Toluquinone-2:5-dioxime (MEHNE), 1888, A., 463; (NITZKI and GUTERMANN), 1888, A., 471.
 Toluquinone/tetroxime and its anhydride (GOLDSCHMIDT and STRAUSS), 1887, A., 809.
 Toluquinoxaline. See Methylquinoxaline.
 Toluric acids, *o-*, *m-* and *p-* (GLADITSCH and MOELLER), 1889, A., 708.
 Toluthiamides, *o-* and *p-* (GABRIEL and HEYMANN), 1891, A., 701.
 Tolylene. See Stilbene.
p-Tolyl benzyl ketone (STRASSMANN), 1889, A., 883.
 oxidation of (BUCHER), 1890, A., 260.
 bromo-derivatives of (BUCHER), 1890, A., 260.
p-Tolyl benzyl oxide (STAEDEL), 1883, A., 585.
 nitro-derivatives (FRISCHE), 1881, A., 1337.
p-Tolyl *d*/bromomethyl ketone (CLAUS), 1890, A., 769.
 Toly ether, preparation of, from *p*-cresol (BUCH), 1885, A., 117.
 Toly ethers, heat equivalent of (STROMMANN, RODAIZ and HERZBERG), 1887, A., 428.
 Toly ethyl ether. See Ethoxytoluene.
p-Tolyl ethyl ketone, and its nitro-derivatives (ERRERA), 1891, A., 1052.
p-Tolyl glycidyl ether (LINDEMANN), 1891, A., 1199.
p-Tolyl heptadecyl ketone (KRAFFT), 1888, A., 1087.

(*Tolyl compounds Me=1.*)
 Toly methyl ether. See Methoxytoluene.
 Toly methyl and ethyl ethylene dioxides (SCHREFFER), 1891, A., 553.
o-Tolyl methyl ketone, 5-bromo- and 5-chloro- (CLAUS), 1891, A., 911.
m-Tolyl methyl ketone (ESSENER and GOSSIN), 1885, A., 252; (V. BUCHKA and IRISH), 1887, A., 826.
 6-amido- (KLINGEL), 1884, A., 1313; 1886, A., 60.
 4-bromo- (SCHÖFF), 1892, A., 338; (CLAUS), 1892, A., 1200.
 6-bromo- (CLAUS), 1891, A., 911.
 4-chloro- (CLAUS), 1892, A., 1201.
 6-chloro- (CLAUS), 1891, A., 911.
p-Tolyl methyl ketone (CLAUS and RIEDEL), 1886, A., 462; (CLAUS), 1890, A., 769.
 oxidation of (CLAUS and NEUKRANZ), 1891, A., 1364.
 derivatives of (ERRERA), 1891, A., 1021.
m-Tolyl methyl ketoxime, 4-bromo- and 4-chloro- (CLAUS), 1892, A., 1201.
p-Tolyl methyl ketoxime (CLAUS), 1890, A., 769.
p-Tolyl methyl pinacone (*ditolylbutylene glycol*) (CLAUS), 1890, A., 769.
p-Tolyl nitrosomethyl ketone (MULLER and V. PECHMANN), 1890, A., 52.
o-Tolyl oxide (GLADSTONE and TREBE), 1886, T., 28.
p-Tolyl pentadecyl ketone (KRAFFT), 1888, A., 1087.
p-Tolyl disulphoxide (OTTO and ROSSING), 1885, A., 1232.
o-Tolyl xylol ketone (SMITH), 1892, A., 491.
o-Tolylacetamide, trichloro- (CLOEZ), 1887, A., 1098.
m-Tolylacetic acid (*m-methylphenylacetic acid*), dinitro- (SLIKOWSKI), 1889, A., 255.
p-Tolylacetic acid (RADZISZEWSKI and WISPEK), 1885, A., 889; (CLAUS and KROEBER), 1887, A., 919; (STRASSMANN), 1889, A., 883.
 preparation of (CLAUS and WEHR), 1891, A., 1365.
 2-mononitro-, and 2:6-dinitro- (CLAUS and WEHR), 1891, A., 1365.
 Tolyacetic acids (RADZISZEWSKI and WISPEK), 1885, A., 889.
m-Tolylacetylene (*methylcinnaene*; *methylstyrene*), and its bromo-derivative (MULLER), 1887, A., 725.

- (*Tolyl compounds Me=1.*)
- p*-Tolylacetylene dibromide (SCHRAMM), 1891, A., 898.
- o*-Tolylacrylic acid (*methylcinnamic acid*) (KROBER), 1890, A., 969.
- m*-amido- (V. MILLER and ROHDE), 1890, A., 1140.
- m*-Tolylacrylic acid (BORNEMANN), 1884, A., 1163; 1887, A., 829; (MÜLLER), 1887, A., 724.
- derivatives of (MÜLLER), 1887, A., 724.
- salts of (BORNEMANN), 1884, A., 1163.
- p*-Tolylacrylic acid (KRÖBER), 1890, A., 969; (V. MILLER and ROHDE), 1890, A., 1140.
- Tolylalanine. See Tolylamidopropionic acid.
- Tolylallylsemithiocarbazides, *o*- and *p*- (AVENARIUS), 1891, A., 550.
- p*-Tolylallylsulphone (OTTO), 1891, A., 1067.
- Tolylallylthiocarbamide (DIXON), 1889, T., 622; (PRAGER), 1890, A., 160.
- m*-Tolylamidoacetic acid ($C_7H_7CH(NH_2)COOH$) (BORNEMANN), 1884, A., 1163.
- o*-Tolylamidoacetic acid (*tolylglycine*; *tolylglycin*) and its derivatives (EHRlich), 1883, A., 594; (BISCHOFF and HAUSDORFER), 1890, A., 1285; 1892, A., 1333.
- calcium salt of (MAUTHNER and SUDA), 1891, A., 39.
- m*-Tolylamidoacetic acid, and its derivatives (EHRlich), 1883, A., 54.
- p*-Tolylamidoacetic acid, and its derivatives (BISCHOFF and HAUSDORFER), 1890, A., 1284; 1892, A., 1335.
- fusion of, with alkalis (HEUMANN), 1891, A., 928.
- o*-nitro- (PLOCHL), 1886, A., 351.
- salts of (LEUCKART and HERMANN), 1887, A., 383.
- p*-Tolylamidoacetimide (BISCHOFF and HAUSDORFER), 1890, A., 1284.
- o*-Tolylamidoacetotoluidide (EHRlich), 1883, A., 593.
- o*-Tolylamidoaceto-*o*-tolylamidoacetic acid (ABENIUS and WIDMAN), 1888, A., 824.
- p*-(*o*)-Tolylamidobenzoic acid, *m*-amido-, and *m*-nitro- (HEIDENSLEREN), 1891, A., 306.
- p*-(*p*)-Tolylamidobenzoic acid, *m*-amido- (HEIDENSLEREN), 1891, A., 306.
- m*-nitro- (SCHÖPFF), 1890, A., 374; (HEIDENSLEREN), 1891, A., 306.
- α*-Tolylamidobutyric acids, *o*- and *p*- (BISCHOFF and MINTZ), 1892, A., 1338.
- (*Tolyl compounds Me=1.*)
- Tolylamidoisobutyric acids, *α*- and *β*- *o*- and *p*- (BISCHOFF and MINTZ), 1892, A., 1339.
- p*-Tolylamidocinnoline (BUSCH and KLETT), 1892, A., 1494.
- Tolylamidoethylphthalimide, *o*- and *p*- (NEWMAN), 1891, A., 1207.
- p*-Tolylamido-*p*-methyloxindole, and its salts (DUISBERG), 1885, A., 543.
- p*-Tolylamidonaphthaquinone, *m*-nitro- (LEICESTER), 1890, A., 1447.
- Tolylamidonaphthaquinoneditoluidide (FISCHER and HEPP), 1890, A., 910.
- p*-Tolylamido-*β*-naphthaquinone-*p*-toluidide (MELDOLA), 1884, T., 159; (BROMME), 1888, A., 491.
- Tolylamidoperezone, *o*- and *p*- (MYLIUS), 1885, A., 778; (ANSCHUTZ and LEATHER), 1886, T., 718.
- Tolylamidophenol. See Hydroxyphenyltolylamine.
- o*-*α*-Tolylamidopropionic acid (TIEMANN and STEPHAN), 1883, A., 199; (GERSON), 1887, A., 260.
- p*-*α*-Tolylamidopropionic acid (TIEMANN and STEPHAN), 1883, A., 199; (BISCHOFF and HAUSDORFER), 1892, A., 1337.
- 3-nitro- (HINSBERG), 1892, A., 1359.
- α*-Tolylamidopropionic acids and amides, *o*- and *p*-, and their *tribromo*-derivatives (TIEMANN and STEPHAN), 1883, A., 199; (STEPHAN), 1887, A., 143.
- p*-*β*-Tolylamidopropionic acid (*p*-tolyl-*β*-alanine) (BISCHOFF and MINTZ), 1892, A., 1343.
- α*-Tolylamidopropionitriles, *o*- and *p*-, *dibromo*- (STEPHAN), 1887, A., 143.
- and their *tribromo*-derivatives (TIEMANN and STEPHAN), 1883, A., 199; (STEPHAN), 1887, A., 143.
- o*-Tolylamidopyrotartarimide (SCHILLER-WEICHLER), 1885, A., 901.
- p*-Tolylamidotoluquinone, *m*-nitro- (LEICESTER), 1890, A., 1446.
- o*-Tolylamidotricarballylic acid (EMERY), 1891, A., 680.
- Tolylamine. See Toluidine.
- Tolylammelins (OTTO), 1887, A., 1034.
- Tolylanilido-. See Anilidotolyl-.
- Tolylaniline, 2:4:6-*trinitro*- (*trinitro-3 anilidotoluene*) (BENTLEY and WARREN), 1890, A., 486; (JACKSON and BENTLEY), 1892, A., 1218.
- Tolylanraminesalts (FEHRMANN), 1888, A., 157.
- p*-Tolylazimidobenzene, amido- (WILLGERODT), 1892, A., 1322.

(*Tolyl compounds Mc=1.*)

- Tolylazo-*m*- and -*p*-cresols**, sulpho-*o*- and -*p*- (*sulphotolueneazocresols*), and salts (NÖLTING and KOHN), 1884, A., 901.
- m*-Tolylbenzene**. See 1:3-Methyldi-phenyl.
- p*-Tolylbenzene** (*phenyltoluene*), derivatives of (CARNELLEY and THOMSON), 1886, P., 258; 1887, T., 87.
- α -bromo-** (CARNELLEY and THOMSON), 1885, T., 586; P., 88; 1887, T., 87.
- α - and β -dibromo-** (CARNELLEY and THOMSON), 1887, T., 89.
- p*-Tolylbenzenylimidoximecarbonyl** (MULLER), 1890, A., 43.
- p*-Tolylbenzenylthiouramidoxime** (TIEMANN), 1891, A., 558; (Koch), 1891, A., 561.
- m*-Tolylbenzoic acid** (PERRIER), 1892, A., 851.
- Tolylbenzylacetic acid**, *o*-, *m*- and *p*- (PAPCKE), 1888, A., 701.
- p*-Tolylbenzylisobutylcarbamide** (HAMMERICH), 1892, A., 1084.
- p*-Tolylbenzylcarbamie chloride** (HAMMERICH), 1892, A., 1083.
- p*-Tolyl-*o*-benzylenediamine** (SODERBAUM and WIDMAN), 1890, A., 1258.
- Tolylbenzyl cyanides**, *o*-, *m*- and *p*- (PAPCKE), 1888, A., 701.
- o*-Tolylbenzylideneamine** (EGARD), 1883, A., 179.
- Tolylbenzylisophosphine** (MICHAELIS and GLEICHMANN), 1883, A., 186.
- p*-Tolylbenzylsemithiocarbazide** (DIXON), 1892, T., 1022.
- Tolylbenzylthiocarbamides**, *o*-, *m*- and *p*- (DIXON), 1891, T., 555.
- p*-Tolylbromacetic acid** (CHAS and WEHR), 1891, A., 1366.
- p*-Tolylbromomethyl disulphone** (OILIO), 1890, A., 381.
- Tolylbutane**. See Isobutyltoluene.
- Tolylisobutyric acid**, 6-nitro- (EIBRON), 1885, A., 152.
- m*-Tolylcarbamide**, di-*o*-chloro- (KOCK), 1887, A., 810.
- p*-Tolylcarbamide**, and its derivatives (PINNOW), 1892, A., 460.
- dithio-** (TRUHLAR), 1887, A., 473.
- Tolylcarbinols**, *o*- and *m*- (COISON), 1885, A., 654.
- Tolylcarbiny-acetamide and -carbamide** (KROBKE), 1890, A., 969.
- p*-Tolyl- ω -chlorobenzylsulphone** (OTTO), 1890, A., 380.
- Tolylchloromethyldimethylcarbinol** (WILLGERODT and GERNIKER), 1888, A., 811.

(*Tolyl compounds Mc=1.*)

- p*-Tolylcumylcarbamide** (GOLDSCHMIDT and GESSNER), 1889, A., 774.
- p*-Tolyl- ψ -cumylcarbamide** (GOLDSCHMIDT and BARDACH), 1892, A., 979.
- o*-Tolylcyanamide** (TIEMANN), 1889, A., 1165; 1890, A., 1127; (VOLTMER), 1891, A., 558.
- p*-Tolyl dibenzylcarbamide** (HAMMERICH), 1892, A., 1083.
- p*-Tolyl diethylphosphine** (CZIMATIS), 1883, A., 58.
- o*-Tolyl diethylthiocarbamide** (GEHARDT), 1885, A., 383.
- p*-Tolyl dihydro- β -phenotriazine** (BUSCH), 1892, A., 734.
- Tolyl dihydroquinazolines**, *o*- and *p*- (PAAL and BUSCH), 1890, A., 73.
- Tolyl dimethyl- δ -amidodiphenylmethane**, *p*-nitro- (NÖLTING), 1892, A., 189.
- Tolyl dimethyl- δ -amidodiphenylmethane and -diethyl- δ -amidodiphenylmethane**, *p*-nitro- (NÖLTING), 1891, A., 727.
- m*-Tolyl dimethylethylmethane** (*tolyl-pentane*) (ESSNER and GOSSEN), 1885, A., 517.
- p*-Tolyl dimethylphosphine** and its derivatives (CZIMATIS), 1883, A., 57.
- p*-Tolyl dimethylpyrrolidine** and its dicarboxylic acid (KNORR), 1885, A., 555.
- 1:2-Tolyl-2-3-dimethylpyrazolone** (KNORR), 1884, A., 1153.
- Tolyl dimethylthiohydantoins**, *o*- and *p*- (MARCKWALD, NEUMARK and STELZNER), 1892, A., 150.
- Tolyl- β -dimethyl- μ -thiomethoxyglyoxalines**, *o*- and *p*- (MARCKWALD, NEUMARK and STELZNER), 1892, A., 153.
- Tolyl dioxamide** (SCHIFF and VANNI), 1891, A., 908; 1892, A., 603.
- Tolylene blue and red** (BRENTNAN and SCHWITZER), 1887, A., 139; (NIEZKI and ERNST), 1890, A., 1111.
- Tolylenealdehydenitrodimeethoxybenz-enyl-*o*-carboxylic acid** (BISIRZYCKI and CHUBICKI), 1892, A., 1249.
- Tolylene- δ -amidocyanuric chloride** (FRIES), 1886, T., 711.
- Tolyleneauramine** (FEHRMANN), 1888, A., 157.
- Tolylenebenzenylamidine**, nitro- (BISIRZYCKI and ULFFERS), 1892, A., 1197.
- Tolylene carbamide** (LEUCKART), 1890, A., 760.
- bromo-** (HAFTMANN), 1890, A., 975.
- Tolylene diallyl- δ -thiocarbamide** (LELLMANN), 1885, A., 977.

(*Tolyl compounds Me=1.*)

- Tolylenediamine** (*diamidotoluene*), action of ethylic chloracetate on (ZIMMERMANN and KNIRIM), 1883, A., 797.
 physiological action of (GIBBS and REICHERT), 1891, A., 1281.
 ferruginous pigment formed in poisoning by (ENGEL and KIENER), 1888, A., 81.
 α - and β -trichloro- (SEELIG), 1885, A., 770.
2:3-Tolylenediamine and its derivatives (LELLMANN), 1885, A., 976.
 4-bromo- (HÜBNER and SCHUPPHAUS), 1884, A., 1143.
2:4-Tolylenediamine and its salts (NÖLTING and COLLIN), 1881, A., 1007.
 conversion of, into an amidocresol and γ -orcinol (WALLACH), 1883, A., 329.
 citrate (SCHNEIDER), 1888, A., 465.
 dinitro- (NIETZKI and ROSEI), 1891, A., 192.
 3:5:6-trinitro- (PALMER), 1889, A., 390.
2:6-Tolylenediamine (ULLMANN), 1884, A., 1316.
3:4-Tolylenediamine (SNAPPE), 1886, T., 259.
 action of monatomic aldehydes of the fatty series on (HINSBERG), 1887, A., 816.
 action of cyanogen on (BLADIN), 1885, A., 784.
 action of ethylic acetoacetate on (WITT), 1887, A., 247.
 action of ethylic chloracetate on (HINSBERG), 1886, A., 83.
 action of formaldehyde on (FISCHER and WRESZINSKI), 1892, A., 1496.
 derivatives of (AUTENRIETH and HINSBERG), 1892, A., 709.
 oxalic acid derivatives of (HINSBERG), 1883, A., 323.
 5-bromo- (BISTRZYCKI), 1890, A., 970.
 dicyano-, and its derivatives (BLADIN), 1885, A., 257.
3:5-Tolylenediamine (STAEDER), 1883, A., 865.
Tolylenediamineazobenzeneazobenzene-sulphonic acid (*azosulphobenzene-toluenediamine*) (GRIESS), 1883, A., 1103.
3:4-Tolylenediaminebenzylidenesulphonic acid, sodium salt of (KAFKA), 1891, A., 721.
2:3-Tolylenediamine-5-sulphonic acid (NIETZKI and POLLINI), 1890, A., 502.

(*Tolyl compounds Me=1.*)

- 2:4-Tolylenediamine-5-sulphonic acid** (LIMPRICHT), 1885, A., 1234;
 (FOTU), 1886, A., 153.
 derivatives (LIMPRICHT), 1885, A., 1234.
Tolylenediamine-p-thiosulphonic acid (PERL), 1885, A., 391.
2:4-Tolylenedioxamethane (*ethylic tolyldioxamate*) (SCHIFF and VANNI), 1891, A., 907; 1892, A., 603.
Tolylenedioxamic acid (SCHIFF and VANNI), 1891, A., 908; 1892, A., 604.
Tolylenediurethane (SCHIFF and VANNI), 1890, A., 1124.
Tolylene-ethenylamidine (*ethenyltolylene-diamine*) (NIEMENTOWSKI), 1886, A., 545; 1892, A., 837; (WITT), 1887, A., 247.
 bromo- (HARTMANN), 1890, A., 976.
 nitro- (BANKIEWICZ), 1888, A., 1184.
 mono- and di-nitro- (BISTRZYCKI and ULFFERN), 1892, A., 1197.
Tolyleneisoethenylamidine (*isoethenyltolylene-diamine*) and its derivatives (NIEMENTOWSKI), 1892, A., 838.
Tolylene-ethenylethylamidine (*ethenyltolylene-diamine*) (HINSBERG), 1887, A., 817.
o-Tolylene-ethyldiamine (KOCK), 1888, A., 469.
m-Tolylene-ethyldiamine (NÖLTING and STRICKER), 1886, A., 544.
Tolylenemalonamide (SCHIFF and VANNI), 1892, A., 600.
Tolylenemethenylamidine (*formanhydrosodiumidolene*) and its bromo-derivative (HUBNER and SCHUPPHAUS), 1884, A., 1143.
Tolylenemethyldiamine (*o-amidomethyl-p-toluidine*) (BAMBERGER and WULZ), 1891, A., 1203.
Tolylenemethylethenylamidine (*methylethenyltolylene-diamine*) and its methiodide (NIEMENTOWSKI), 1887, A., 937.
Tolyleneopiamine (BISTRZYCKI), 1888, A., 1210.
Tolylenoxamide (SCHIFF and VANNI), 1892, A., 599, 1208.
Tolylenephthalamidone (BISTRZYCKI and CYBULSKI), 1892, A., 1248.
Tolylenepropenylamidine (BISTRZYCKI and ULFFERN), 1890, A., 1115.
Tolylene-semiurethane and -urethane (SCHIFF and VANNI), 1890, A., 1124.
m-Tolylenedithiocarbamide, and its preparation (BILLETER and STEINER), 1886, A., 234.
Tolylenethiocarbamides, *o*- and *m*- (BILLETER and STEINER), 1887, A., 367.

(Tolyl compounds Me=1.)

- m-p*-Tolylene-*mono*- and -*di*-thiocarbamides and their derivatives (LELLMANN), 1881, A., 49.
- Tolylene-*mono*- and -*di*-thiocarbimides (BILLETER and STEINER), 1886, A., 234.
- m*-Tolylene*di*thiourethane (BILLETER and STEINER), 1887, A., 367.
- Tolylenic diaz sulphide (JACOBSON and NEY), 1889, A., 772.
- m*-Tolylenic diisocyanate (SNAPE), 1886, T., 257.
- Tolylethénylamidine (WALLACH), 1883, A., 48.
- Tolylethylene*di*amines, *o*- and *p*- (NEWMAN), 1891, A., 1207.
- p*-Tolylethylhydrazidopyruvic acid (HÜGEL), 1886, A., 552.
- p*-Tolylethylnitrosamine (GASTIGER), 1885, A., 381.
- o*-Tolylethylsemithiocarbazide (DIXON), 1890, T., 262.
- p*-Tolylethylsulphone (OTTO), 1885, A., 537.
- Tolylethylthiobiuret (TURSINI), 1884, A., 1141.
- p*-Tolylethylthiourethane, *o*-nitro- (STEUDEMANN), 1884, A., 307.
- p*-Tolylformamidine, cyano- (COMSROCK and WHEELER), 1892, A., 707.
- Tolylfurfuryl-carbamide and -thiocarbamide (DEUTZMANN), 1892, A., 43.
- Tolylglycocine (*tolylglycine*). See Toly-amidoacetic acid.
- o*-Tolylglycollic acid (OGLIALORO-TODARO and CANNONE), 1890, A., 375.
- m*-Tolylglycollic acid (OGLIALORO-TODARO and FORTE), 1891, A., 320.
- p*-Tolylglycollic acid, derivatives of (NAPOLITANO), 1883, A., 1126.
- p*-Tolylglyoxal hydrate (MÜLLER and v. PECHMANN), 1890, A., 52.
- v-p*-Tolylglyoxaline (MARCKWALD), 1892, A., 1329.
- v-p*-Tolylglyoxalyl methyl sulphide (MARCKWALD), 1892, A., 1329.
- v-p*-Tolylglyoxalyl-*μ*-mercaptan (MARCKWALD), 1892, A., 1328.
- p*-Tolylglyoxylic acid (v. BUCHKA and IRNH), 1887, A., 826; (CLAUS and KROSEBERG), 1887, A., 948; (v. BUCHKA), 1887, A., 949.
- Tolylglyoxylic aldehyde (CLAUS), 1890, A., 769.
- p*-Tolylhexyldihydrotolutriazine (GOLDSCHMIDT and POLTZER), 1891, A., 842.
- o*-Tolylhydantoin (EHRlich), 1883, A., 1106.

(Tolyl compounds Me=1.)

- γ*-Tolylhydantoin (QUENDA), 1892, A., 828.
- p*-Tolylhydrazidoacetone (RASCHEN), 1887, A., 956.
- p*-Tolylhydrazidocamphoric acid (CHAPLIN), 1892, A., 1481.
- Tolylhydrazidopyruvic acids, *o*- and *p*- (RASCHEN), 1887, A., 956.
- m*-Tolylhydrazine (v. BUCHKA and SCHACHTERBECK), 1889, A., 702.
- p*-Tolylhydrazine, action of chloroform and alcoholic potash on (RUHEMANN), 1889, T., 247.
- sulphonation of (GALLINEK and v. RICHIER), 1886, A., 237.
- phosphinite (MICHAELIS and OSTER), 1892, A., 1325.
- Tolylhydrazinedisulphonic acid (RICHTER), 1886, A., 152.
- Tolylhydrazine-*o* sulphonic acid (BRACKETT and HAYES), 1888, A., 279.
- p*-Tolylhydrazine-5-sulphonic acid, 2-nitro- (LIMPRICHT), 1885, A., 1216; (FOTH), 1886, A., 153.
- Tolylhydrazinesulphonic acids, *o*- and *p*- (LIMPRICHT), 1885, A., 1216.
- action of concentrated sulphuric acid on (SCHNEIDER), 1887, A., 146.
- p*-Tolylhydrazo-*p*-cresetol (NOLTING and WERNER), 1891, A., 214.
- o*-Tolylhydrazo-*p*-cresol and *p*-tolylhydrazo-*o*-cresol (NOLTING and WERNER), 1891, A., 213.
- p*-Tolylhydrazone (JAPP and KLINGEMANN), 1888, T., 514.
- thionyl- (MICHAELIS and RUHL), 1890, A., 617; 1892, A., 1324.
- p*-Tolylhydrazophenetol (NOLTING and WERNER), 1891, A., 212.
- Tolylhydrazonopyruvic acids, action of heat on (JAPP and KLINGEMANN), 1888, T., 543.
- p*-Tolylhydrazotolyl-*mono*- and -*di*-thiobiazolone (FREUND), 1892, A., 512.
- p*-Tolylhydroxyethylamine (SCHREIBER), 1891, A., 552.
- p*-Tolyllic acetate, *di*iodo- (SCHALL and DRALLE), 1885, A., 146.
- Tolyllic *o*-acetates, *o*-, *m*- and *p*- (HEIBER), 1892, A., 308.
- p*-Tolyllic benzoate, *di*bromo- and *di*iodo- (SCHALL and DRALLE), 1885, A., 146.
- Tolyllic dichlorides, *isocyno*-, *o*- and *p*- (NEF), 1892, A., 1441.
- mercuric chlorides, *o*-, *m*- and *p*- (MICHAELIS and GENZKEN), 1884, A., 146.

- (*Tolyl compounds Me=1.*)
- p*-Tolyllic cinnamate, and the action of heat on (ANSCHUTZ), 1885, T., 898; A., 1061.
- Tolyllic cyanate, nitro- (GATTERMANN and CANTZLER), 1892, A., 833.
- cyanates, polymerisation products of (FRENTZEL), 1888, A., 454.
- m*-Tolyllic isocyanate (HEILMANN), 1891, A., 201.
- Tolyllic isocyanides, *o*- and *p*- (NEF), 1892, A., 1441.
- cyanurates, *o*- and *p*- (FRENTZEL), 1888, A., 454.
- p*-Tolyllic diphenylcarbamate (LELLMANN and BENZ), 1891, A., 1215.
- Tolyllic ethylxanthates, *o*-, *m*- and *p*- (LEUCKART), 1890, A., 603.
- p*-Tolyllic fumarate and action of heat on (ANSCHUTZ and WIRTZ), 1885, T., 901; A., 1064.
- laurate, myristate, palmitate and stearate (KRAFFT and BURGER), 1884, A., 1125.
- Tolyllic phenylcarbamates, *o*- and *p*- (LEUCKART), 1890, A., 760.
- p*-Tolyllic phenylmethylcarbamate (LELLMANN and BENZ), 1891, A., 1215.
- o*-Tolyllic phosphate, dichloro- (STUART), 1888, T., 403; P., 24.
- p*-Tolyllic phosphate (RAPP), 1884, A., 1338.
- Tolyllic phosphates, nitration of (RAPP), 1884, A., 1337.
- sulphide (PURGOTT), 1890, A., 1420.
- disulphide, sulpho- (OTTO and TRÖGER), 1891, A., 924.
- tetrasulphide (OTTO), 1887, A., 923.
- p*-Tolyllic *s-d*ithiocarbonate (LEUCKART), 1890, A., 603.
- Tolyllic thiocyanates, *o*- and *p*- (THURNAUER), 1890, A., 749.
- o*-Tolyllic *o*-tolylcarbamate (GATTERMANN and CANTZLER), 1892, A., 832.
- o*-Tolyl- β -imidobutyric acid (PAWLEWSKI), 1889, A., 1171.
- Tolyl- β -imidobutyric acids, *o*- and *p*-, synthesis of (KNORR), 1884, A., 1198.
- Tolylimidocarbonyl chloride (NEF), 1892, A., 1441.
- o*-Tolylimidodiacetamide (BISCHOFF and HAUSDÖRFER), 1892, A., 1335.
- o*-Tolylimidodiacetic acid (BISCHOFF and HAUSDÖRFER), 1890, A., 1285.
- ammonium salt of (BISCHOFF and HAUSDÖRFER), 1892, A., 1335.
- p*-Tolylimidodiacetic acid (BISCHOFF and HAUSDÖRFER), 1890, A., 1285; 1892, A., 1336.
- (*Tolyl compounds Me=1.*)
- p*-Tolylimidodiacetic ditolnide (BISCHOFF and HAUSDÖRFER), 1892, A., 1336.
- o*-Tolylimidodiacetamide (BISCHOFF and HAUSDÖRFER), 1892, A., 1335.
- Tolylimidodiphenylethyl alcohols (*o*- and *p*-tolylbenzoins) (BANDROWSKI), 1889, A., 147.
- p*-Tolylimidomethylene ethylenic disulphide (MIOLATI), 1891, A., 895.
- o*-Tolylindigo (HEUMANN), 1891, A., 837.
- p*-Tolylidomethylsulphone (OTTO), 1888, A., 482.
- p*-Tolylketodihydroquinazoline (PAAL and BUSCH), 1890, A., 73.
- Tolylketone aldehyde (*tolylglyoxylic aldehyde*) (CLAUS), 1890, A., 769.
- p*-Tolylketotetrahydroquinazoline (BUSCH), 1892, A., 1496.
- Tolylmethyldihydrophenotriazine (GOLDSCHMIDT and POLTZER), 1891, A., 841.
- 2'-*p*-Tolylmethyl-3'-ethylidihydrophenotriazine (GOLDSCHMIDT and POLTZER), 1891, A., 842.
- p*-Tolyl-*p*-methyl- ψ -isatin, derivatives of (DUISBERG), 1885, A., 544.
- Tolylmethylenemethyldiamine (FISCHER), 1889, A., 731.
- 1-*m*-Tolyl-2-*m*-methylphenyl-3-methylpyrazolone (1:2-*di-m*-tolyl-3-methylpyrazolone) (v. PERGER), 1886, A., 1046.
- p*-Tolyl- α -methylphthalimide (NIEMEN-TOWSKI), 1892, A., 608.
- o*-Tolylmethylpropylene- ψ -thiocarbamide (PRAGER), 1890, A., 160.
- 1-*o*- and *p*-Tolyl-3-methylpyrazolone (KNORR), 1884, A., 1153.
- 1-*p*-Tolyl-3-methylpyrazoloneketo-4-*p*-tolylhydrazone (v. BUCHKA and SPRAGUE), 1890, A., 29; (SPRAGUE), 1891, T., 340.
- p*-Tolylmethylsulphone (OTTO), 1885, A., 537.
- mono*- and *di*-chloro- (OTTO), 1890, A., 380.
- Tolylmethylthiocarbamides, *o*- and *p*- (DIXON), 1889, T., 620.
- o*-Tolylmethylthiohydantoin (MARCKWALD, NEUMARK and STELZNER), 1892, A., 150.
- o*-Tolyl- α - and - β -naphthylamines (FRIEDLÄNDER), 1884, A., 80.
- p*-Tolyl- α -naphthylamine (FRIEDLÄNDER), 1884, A., 80.
- p*-Tolyl- β -naphthylamine (FRIEDLÄNDER), 1884, A., 80; (WITT), 1887, A., 592.

(Tolyl compounds $Me=1$.)

- Tolynaphthylenediamine** (FISCHER), 1892, A., 1476.
- p*-Tolyl-*o*-naphthylenediamine and its anhydro- and thio-derivatives (FISCHER), 1892, A., 1173.
- Tolynaphthylsulphides** (BOURGEON), 1891, A., 1238.
- m*-Tolynitromethane (HEILMANN), 1891, A., 201.
- Tolynitrotoluenesulphazide**, nitro- (LINPRICHT), 1887, A., 723.
- Tolyoctane**, amido- (*tolobylamine*) and its derivatives (DERAN), 1885, A., 524.
- p*-Tolylsazoneglyoxalcarboxylic acid (NASTVOGEL), 1889, A., 238.
- Tolyloxamethane**, amido-, and nitro-. See Ethylic amido- and nitro-tolyl-oxamates.
- o*-Tolylloxamic acid (MAUTHNER and SUIDA), 1886, A., 886.
- p*-Tolylloxamic acid, 2-amido- (SCHIFF and VANNI), 1890, A., 1125; 1891, A., 833; 1892, A., 599, 601, 1208.
- 3-nitro-, and its derivatives (HINSBERG), 1883, A., 323; (SCHIFF and VANNI), 1892, A., 601.
- p*-Tolylloxamide, nitro- (SCHIFF and VANNI), 1892, A., 601.
- p*-Tolyl-oxamide and -oxanilide, 2-amido- (SCHIFF and VANNI), 1891, A., 834; 1892, A., 602.
- Tolylloxamides**, *o*-, *m*- and *p*- (BLADIN), 1884, A., 1142.
- Tolyl-*oxy*-ethylamine**, -ethylamine, -ethylcarbamide and -ethylphthalamic acid (SCHREIBER), 1891, A., 552.
- p*-Tolyl-*oxy*-ethylphthalimide, and its dinitro-derivative (SCHREIBER), 1891, A., 552.
- Tolylpentane** (ESSENER and GOSSIN), 1885, A., 517.
- Tolylphenyl-**. See Phenyltolyl-.
- o*-Tolylphthalamic acid and its methyl derivatives (KUHARA), 1887, A., 586.
- p*-Tolylphthalide (GRESLEY), 1886, A., 1028.
- o*-Tolylphthalimide (PIUTTI), 1884, A., 453; (KUHARA), 1887, A., 586.
- preparation of (HALLER), 1892, A., 1204.
- 1-*p*-Tolylpiperidine (LELLMANN and JUST), 1891, A., 1244.
- p*-Tolylpropaldehyde and its derivatives (v. RICHTER and SCHÜGGINER), 1884, A., 1342.
- α*-*p*-Tolylpropaldehyde (v. MILLER and RÖHDE), 1890, A., 898; (ERRERA), 1891, A., 1020.

(Tolyl compounds $Me=1$.)

- m*-Tolylpropionic acid (MULLER), 1887, A., 725.
- o*-Tolylpropionic acid (*o*-methylhydrocinnamic acid) (YOUNG), 1892, A., 1221.
- m*-Tolylpropionic acid [m.p. 125°] (EFFRONT), 1885, A., 152.
- nitro- (EFFRONT), 1885, A., 152.
- m*-Tolylpropionic acid (*m*-methylhydrocinnamic acid) [m.p. 40°] (MULLER), 1887, A., 724.
- p*-Tolylpropionic acid (*p*-methylhydrocinnamic acid) (KRÜBER), 1890, A., 969.
- α*-*p*-Tolylpropionic acid (*methylhydro-tropic acid*) (v. MILLER and RÖHDE), 1890, A., 978, 1140; (ERRERA), 1891, A., 1021; (ERRERA and BALDRACCO), 1892, A., 605.
- m*-diamido- and *m*-dinitro- (ERRERA and BALDRACCO), 1892, A., 606.
- Tolylpropionic acid**. See also Methylhydrocinnamic acid.
- α*-*p*-Tolylpropionitrile (ERRERA), 1891, A., 1021.
- α*-*p*-Tolylpropylene (ERRERA), 1885, A., 772.
- β*-*p*-Tolylpropylene (ERRERA), 1891, A., 1021.
- Tolylpropylene-*ψ*-semithiocarbazides**, *o*- and *p*- (AVENARIUS), 1891, A., 550.
- o*-Tolylpropylene-*ψ*-thiocarbamide (PRAGER), 1890, A., 160.
- α*-*p*-Tolylpropylic alcohol (ERRERA), 1891, A., 1021.
- p*-Tolyl-*n*- and -*iso*-propylnitrosamines (HORI and MORLEY), 1891, T., 34.
- 1-Tolylpyrazoles, *o*- and *p*- (BALBIANO), 1889, A., 1216.
- 1-Tolylpyrazolethylammonium iodides, *o*- and *p*- (BALBIANO), 1889, A., 1216.
- 1-Tolylpyrazolines, *o*- and *p*- (BALBIANO), 1889, A., 1216.
- p*-Tolylpyrrolinedibenzoic acid (BAUMANN), 1887, A., 736.
- 3'-*m*-Tolylisoquinoline (HEILMANN), 1891, A., 202.
- 1'-chloro- (HEILMANN), 1890, A., 625; 1891, A., 202.
- 3'-*p*-Tolylisoquinoline and 1'-chloro- (RUEHMANN), 1892, A., 174.
- p*-Tolylrosinduline and *iso*-*p*-tolylrosinduline (FISCHER and HERR), 1890, A., 909.
- Tolylsemicarbazides**, *o*- and *p*- (PINNER), 1888, A., 687.
- Tolylstibine**, and its derivatives (MICHAELIS and GRNZKEH), 1884, A., 1135.

(Tolyl compounds Me=1.)

- Tolylsulphone** (PURGOTT), 1890, A., 1420.
- p*-Tolylsulphoneacetic acid (OTTO), 1885, A., 537.
- p*-Tolylsulphoneacetone (R. and W. OTTO), 1888, A., 282.
- p*-Tolylsulphone-ethyl and -ethylamine derivatives (OTTO and DAMKÖHLER), 1885, A., 538.
- α-p*-Tolylsulphonepropionic acid (OTTO), 1890, A., 382.
- preparation of the ethyl salts of (OTTO), 1885, A., 537.
- Tolylsulphophenylbenzenylamidine** (WALLACH), 1883, A., 48.
- p*-Tolyltetrahydroquinazoline (PAAL and BUSCH), 1890, A., 78.
- p*-Tolyltetrahydrothioquinazoline (BUSCH), 1892, A., 1496.
- Tolylthiazolines**, *μ-σ*, and *μ-p*- (GABRIEL and HEYMAN), 1891, A., 701.
- Tolylthiobiuret**, and its acetyl-derivative (TURSINI), 1884, A., 1140.
- Tolylthiocarbamic acids**, salts of (LOSANITSCH), 1892, A., 56.
- m*-Tolylthiocarbamide, *di-σ*-chloro- (KOCK), 1887, A., 810.
- p*-Tolylthiocarbamide, action of acetic anhydride on (WERNER), 1891, T., 403.
- 2-nitro- (STEUEMANN), 1884, A., 307.
- thio- (TRUHLAR), 1887, A., 473.
- Tolylthiocarbazinic** *o*- and *p*-tolylhydrazides, *o*- and *p*- (FREUND), 1892, A., 511.
- o*-Tolylthiocarbimide, preparation of (WERNER), 1891, T., 402.
- action of aldehyde-ammonia on (DIXON), 1888, T., 418.
- action of, on thialdine (DIXON), 1889, T., 626.
- m*-Tolylthiocarbimide, preparation of (WERNER), 1891, T., 403.
- p*-Tolylthiocarbimide, preparation of (WERNER), 1891, T., 404.
- oxide (HELMERS), 1887, A., 581.
- nitro- (STEUEMANN), 1884, A., 307.
- Tolylthiocarbimide** (HOBBS), 1888, A., 708.
- o*-Tolylthiocarbimide-aldehyde-ammonia (DIXON), 1892, T., 520.
- o*-Tolylthiohydantoin (MARCKWALD, NEUMARK and STELZNER), 1892, A., 150.
- p*-Tolylthiourethane, *o*-nitro- (STEUEMANN), 1884, A., 307.
- o* Tolytoluenesulphazide (LIMPRICHT), 1887, A., 723.

(Tolyl compounds Me=1.)

- 1:4-*o*-Tolyl-*p*-tolylidiketopyrazine, 3:6-dichloro- (ABENIUS), 1890, A., 526.
- p*-Tolyl-2:4-tolylene-diamine (*amido-ditolylamine*) (FISCHER and SIEDER), 1891, A., 434.
- p* Toly-3:4-tolylene-diamine, formation of, from *p*-ditolylhydrazine, and its derivatives (TAUBER), 1892, A., 853.
- p*-Tolyl-*o*-tolylene-guanidine- (KELLER), 1891, A., 1470.
- Tolyl-*p*- and -*o*-tolylsemithiocarbazides, *o*- and *p*- (DIXON), 1892, T., 1015.
- Tolyltrimethylphosphonium periodide (CZIMATIS), 1883, A., 57.
- Tolylurazoles**, *o*- and *p*- (PINNER), 1888, A., 687.
- Tolylurethane**, amido- (SCHIFF and VANNI), 1892, A., 600; (SCHIFF), 1892, A., 1203.
- 4-nitro- (SCHIFF and VANNI), 1892, A., 601.
- Tomato**, cooked, composition of (WILLIAMS), 1892, T., 227.
- Tomatoes**, composition and anatomical structure of the fruit of (BRIONI and GIGLI), 1891, A., 955; (PASSERINI), 1891, A., 956.
- Tonometer**, differential (BRÜMER), 1888, A., 402.
- Topaz**, Brazilian, liquid inclusions in (v. NORDENSKIÖLD), 1886, A., 674.
- from Maine, U.S. (BRADBURY), 1884, A., 27; (CLARKE and DILLER), 1886, A., 213.
- from Pike's Peak, Colorado (CROSS and HILLEBRAND), 1888, A., 1065.
- from Tasmania (v. GROENDECK), 1886, A., 603.
- from the Thomas range, Utah (AL-LING), 1887, A., 453.
- in rhyolite (CROSS), 1886, A., 991.
- pyroelectricity of (FRIEDEL and CURIE), 1885, A., 469.
- See also Aluminium silicofluorides.
- Torpedo**, chemical studies on (WEYL), 1887, A., 1128.
- Torpedo-mucin** (WEYL), 1887, A., 1128.
- Tortoise**, urine of the (MILLS), 1887, A., 170.
- Tourmaline** from Bohemia (KATZER), 1888, A., 923.
- blue, from Chapéy (MICHEL-LÉVY), 1886, A., 211.
- from Japan (WADA), 1885, A., 222.
- from New South Wales (LIVERSIDGE), 1886, A., 774.
- black, from North Carolina (HIDDEN and DES CLOIZEAUX), 1887, A., 118.

- Tourmaline** from Schittenhofen, constitution and colour of (SCHARTZER), 1889, A., 761.
 red, from Siberia (PRINDEL), 1892, A., 573.
 from Tasmania (v. GRODDECK), 1886, A., 603.
 chromic, in the Uials (COSSA and ARZRONI), 1883, A., 444.
 composition of (RIGGS), 1888, A., 659; (JANNASCH and KALB), 1889, A., 472; (RAMMELSBURG; KALB), 1891, A., 24.
 formula of (WULFING), 1889, A., 765; (KENNIGOT), 1892, A., 1110.
 effect of heat on the optical properties of (DORLIER), 1885, A., 26.
 thermal conductivity of (STIENGER), 1885, A., 5.
- Tourmaline-bearing copper ores** from Chili (v. GRODDECK), 1890, A., 114.
- Tourmalinic-pegmatite** from Rižan (KATZER), 1889, A., 357.
- Toxalbumin** secreted by the microbe of blennorrhagic pus (HUGOUNENQ and ERAUD), 1891, A., 1521.
- Toxicological investigations** (HESS and LUCHSINGER), 1885, A., 578; (LECCO), 1886, A., 743; 1891, A., 864; (MARINO-ZUCO), 1889, A., 653; (TORIO and SPICA), 1891, A., 772.
 See also Physiological action and Poisoning.
 and chemical relations of some fungi (BOHM), 1885, A., 1008.
- Trachyte** of Gleichenberg, action of water containing carbonic acid on (CLAR), 1881, A., 569.
- Trachytes** of the Epeires-Tokay mountains (ROVIN), 1886, A., 131.
- Trachyte-dolerites** of the Vogelsberg (LEDROIT), 1887, A., 901.
- Trachyte-region** of the Rhodope (PLAZ and HUSSAK), 1884, A., 111.
- Transfusion** of mixture of blood and salt solution (MARSHALL), 1891, A., 317.
- Transition point** (ROOZLBOOM), 1885, A., 1117.
 and point of fusion (VAN DER HORP), 1888, A., 401.
 points, triple and multiple points regarded as (ROOZLBOOM), 1888, A., 1151.
- Translocation, diastase** of (BROWN and MORRIS), 1890, T., 509.
- Transpiration** (CHABRIE), 1892, A., 1267.
 and assimilation, relation between the, produced by chlorophyll (JUMELLE), 1890, A., 190.
- Transportation** of solids in a vacuum by the vapours of metals (MORSE and WHITE), 1892, A., 1386.
- Trees.** See Agricultural Chemistry.
- Trehalose.** See Carbohydrates.
- Tremolite** (*gremmatite*) from Nordmarken (FLINK), 1889, A., 221.
 chemical composition of (BERWERTH), 1886, A., 28.
 crystallographical examination of (PRIMOS), 1885, A., 733.
- Triacetic acid**, δ -lactone of, and its reactions (COLLIE), 1891, T., 607; P., 111.
 preparation of pyridine derivatives from (COLLIE and MYERS), 1892, T., 721; P., 131.
- Triacetin** (*triacetyl glycerol*) (SEELIG), 1892, A., 289.
 preparation of (BOELLINGER), 1891, A., 1183.
- Triacetonealkamine** (*hydroyxyltetramethyluraxhydropyridine*) (FISCHER), 1883, A., 1153.
 preparation of (FISCHER), 1884, A., 1290.
- ψ -**Triacetonealkamine** (FISCHER), 1884, A., 1290.
- Triacetoneamine** (FISCHER), 1884, A., 1290.
 action of phosphorus pentachloride and oxychloride on (FISCHER), 1883, A., 790.
 homologues of (FISCHER), 1884, A., 1290.
- Triacetone-methylalkamine** and its salts (FISCHER), 1883, A., 1153.
- Triacetone-trisulphone** (BAUMANN and FROMM), 1890, A., 26.
- Triacetone** (*tetramethyltrachydropyridine*) and its salts (FISCHER), 1883, A., 1153; 1884, A., 1290.
 nitroso- (FISCHER), 1884, A., 1290.
- ψ **Triacetone** (FISCHER), 1884, A., 1291.
- Triacetoxypentane** (PRUNIER), 1884, A., 1281.
- Triacetyl/iamidohydroxynaphthyl phenyl** (MEDOLA and MORGAN), 1889, T., 121.
- Triacetyl/iamido α -naphthol** and its nitro-derivative (MERSON), 1888, A., 713.
- Triacetyl/iamido- β -naphthol** (LOEWIE), 1890, A., 1421.
- Triacetyl/iamidophenol** (BAMBERGER), 1884, A., 304.
- Triacetyl/iamidothymol** (MAZZARA), 1891, A., 188.
- 1,3,5-Triacetylbenzene** (CLAISIN and STILES), 1888, A., 671.

- Triacetyl-*is*bromobrazilein** (SCHALL and DRALLE), 1890, A., 997.
- Triacetyl-*is*phenyltetramidotoluene** (NIE-TZKI and ROSEL), 1891, A., 192.
- Triacetylformamidil** (PINNER), 1884, A., 723.
- Triacetyl-gallamide** (MARX), 1891, A., 1220.
- Triacetyl-gentisein** (v. KOSTANECKI), 1891, A., 1244, 1886.
- Triacetyl-glycerol**. See **Triacetin**.
- Triacetylic cyanurate** (PONOMAREFF), 1886, A., 217.
- Triacetyl-leucaniline and -*para*leucaniline** (RENOUF), 1883, A., 981.
- Triacetyl-moradin** (ARATA and CANZONERI), 1890, A., 405.
- Triacetyl- and -isotriacetyl-quinide** (ERWIG and KOENIGS), 1889, A., 991.
- s-Trialkylpyridines**, oxidation of (ALTAR), 1887, A., 378.
- Triallylamine**, action of sulphuric acid on (LIEBERMANN and HAGEN), 1883, A., 1086.
- Triallyloxymethane**, preparation of (BEILSTEIN and WIEGAND), 1885, A., 740.
- Triammonium salts**. See under **Ammonium**.
- Tri-*is*o-*is*o-*is*o-bismuthine** (MARQUARDT), 1888, A., 1067.
- Trianhydropyruvic acid**, phosphorus salt of (MESSINGER and ENGELS), 1889, A., 36.
- Trianilidobenzene**, bromo-*di*nitro- (JACKSON and BANCROFT), 1890, A., 982.
- di*nitro-** (PALMER and JACKSON), 1890, A., 248.
- tri*nitro-** (JACKSON and WING), 1888, A., 1276.
- Trianilidonaphthalene** (FISCHER and HEPP), 1890, A., 911.
- Trianiline disilicotetrafluoride** (COMBY and JACKSON), 1888, A., 942.
- Trianisil** (FRITSCH), 1891, A., 708.
- Trianisylarsine** (MICHAELIS and WEITZ), 1887, A., 367.
- Triarabinan-tri- and -tetra-galactangeddie acids** (O'SULLIVAN), 1891, T., 1037, 1071.
- Triauramine** (RASCHIG), 1887, A., 112.
- Triazimidoacetamide** (CURTIUS and LANG), 1889, A., 370.
- Triazine derivatives**, synthesis of (MELDOLA), 1890, T., 323; P., 37.
- nomenclature of** (MELDOLA and FORSTER), 1891, T., 679.
- substituted**, preparation of (MELDOLA and FORSTER), 1891, T., 679.
- nitro-**, reduction of (MELDOLA and FORSTER), 1891, T., 701.
- Triazine-series** (MELDOLA and FORSTER), 1891, T., 678; P., 123.
- Triazo-compounds**. See under **Azo-**.
- Triazole** (ANDREOCCHI), 1892, A., 636; (BLADIN), 1892, A., 735.
- derivatives of** (BLADIN), 1892, A., 637.
- Triazoles**, nomenclature of (KEHRMANN and MESSINGER), 1892, A., 889.
- Triazolecarboxylic acid** (ANDREOCCHI), 1892, A., 636; (BLADIN), 1892, A., 735.
- Triazole-series**, amidoximes and azoximes of (BLADIN), 1889, A., 977.
- Tribenzamide** (CURTIUS), 1891, A., 58.
- Tribenzamidophloroglucinol**, synthesis of (RÜGHEIMER), 1889, A., 249.
- Tribenzoicin** (VAN ROMBURGH), 1883, A., 63.
- Tribenzoin** (FRITSCH), 1891, A., 708.
- Tribenzoyl-*tri*amidobenzene** (HINSBERG and v. UDRANSZKY), 1890, A., 370.
- Tribenzoyl-*tri*amido- β -naphthol** (LOEW), 1890, A., 1424.
- o-Tribenzoylbenzene** (HAUSMANN), 1889, A., 1172.
- Tribenzoyl-*is*o-*is*o-*is*o-citol** (RAYMAN), 1887, A., 907.
- Tribenzoyl-glycerol** (SKRAUP), 1889, A., 1152.
- Tribenzoyl- β -hydrojuglone** (MYLIUS), 1886, A., 69.
- Tribenzoylmesitylene** (LOUISE), 1884, A., 1000.
- Tribenzoylmethane** (v. BAeyer and PERKIN), 1884, A., 64.
- preparation and properties of** (PERKIN), 1885, T., 252.
- 1:2:3-Tribenzoylpropane** (EMERY), 1891, A., 680.
- Tribenzoylpyrogallol** (SKRAUP), 1889, A., 1152.
- Tribenzoylamine** (LEUCKART), 1885, A., 1215.
- boiling point of** (SCHWETZER), 1891, A., 1240.
- action of bromine on** (WALLACH), 1891, A., 159.
- action of sodium on** (JACKSON and WING), 1886, A., 616.
- derivatives of** (MARQUARDT), 1886, A., 615.
- Tribenzoylarsine**, and its derivatives (MICHAELIS and PARTOW), 1885, A., 527.
- Tribenzoylcarbamide** (HAMMERICH), 1892, A., 1083.
- Tribenzylethenyltrisulphone** (LAVES), 1892, A., 613.
- Tribenzylethylammonium iodide** (MARQUARDT), 1886, A., 615.

- Tribenzylethylphosphonium chloride**, action of heat on (COLLIE), 1888, T., 725.
- Tribenzylhomo-*o*-phthalimide** (PULVERMACHER), 1887, A., 1112.
- α -Tribenzylhydroxylamine** (WALDER), 1886, A., 796.
- β -Tribenzylhydroxylamine** (BECKMANN), 1889, A., 608; (BEHREND and LEUCHS), 1889, A., 703.
- Tribenzyl phosphate** (LOWEN and KOHLER), 1891, A., 1015.
- Tribenzyl *o*-thioacetate** (LAVES), 1892, A., 612.
- Tribenzylidenediamine**. See Dihydrobenzamide.
- Tribenzylidenemannitol** (MEUNIER), 1888, A., 1049.
- Tribenzylmethyllammonium iodide and hydroxide** (MARQUARDT), 1886, A., 615.
- Tribenzylphosphine** (LETTS and BLAKE), 1890, A., 767.
oxide, identity of, with Hofmann's dibenzylphosphine (LETTS and BLAKE), 1890, A., 492.
action of chlorine, of nitric acid and of sulphuric acid on (COLLIE), 1889, T., 225.
some compounds of, and trinitro- (COLLIE), 1889, T., 223; P., 45.
- Tribenzylisopropylammonium iodide** (MARQUARDT), 1886, A., 615.
- Tribenzylpyridine** (RUGHEIMER), 1892, A., 1365.
- Tribenzyltriphenylguanidine** (MANNS), 1889, A., 261.
- Tribenzyltrisulphonephenylmethane** (LAVES), 1892, A., 613.
- Tribrassidin** (REIMER), 1887, A., 233.
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derivatives of (v. BAeyer and PAPE), 1884, A., 898; (LESER), 1884, A., 1313; (CLAUS and GRONWEIG), 1891, A., 921.

***o*-Xylene**, 4-bromo- (JACOBSEN), 1885, A., 142.

ω -dibromo- (*xylylenic bromide*) (v. BAeyer and PERKIN), 1884, A., 752; (COLSON), 1884, A., 1000.

action of ammonia on (SCHOLTZ), 1891, A., 1353.

4:5- and 3(?) : 4-dibromo- (JACOBSEN), 1885, A., 142; (Koch), 1890, A., 1247.

o-Xylene, Me:Me 1:2; *m*-xylene, Me:Me 1:3; *p* xylene, Me:Me 1:4.

***o*-Xylene, tetrabromo-** (JACOBSEN), 1885, A., 112.
 1:5:3 *di*bromonitro- and 4:5:3:6 *di*bromodinitro- (TOHL), 1886, A., 57.
 3-chloro- (KRUGER), 1885, A., 1053.
 4-chloro- (CLAUS and KAUTZ), 1885, A., 972; (KRUGER), 1885, A., 1053; (CLAUS and GRONEWEG), 1891, A., 921.
ω-dichloro- (COLSON), 1884, A., 1000.
β-*di*-, *tri*- and *tetra*-chloro- (CLAUS and KAUTZ), 1885, A., 972.
ω-tetrachloro- (HJELT), 1886, A., 143.
ω-*tetra*- and *ω*-*penta*-chloro- (COLSON and GAUTIER), 1886, A., 613.
 4:5-chlorobromo-, 4:5:3-*dichloro*-bromo-, 4:5-chlorobromonitro- and 4:5-chloronitro- (CLAUS and GRONEWEG), 1891, A., 921.
 4:5:3:6 *dichlorodinitro*- (CLAUS, RAPS, HERFELDT and BERKEFELD), 1891, A., 1201.
ω-*di*iodo- (LESER), 1884, A., 1314.
***m*-Xylene, spectrum of** (HARTLEY), 1885, T., 704.
 action of methylenic chloride on, in presence of aluminium chloride (FRIEDEL and CRAFTS), 1887, A., 1102.
 derivatives of (COLSON), 1884, A., 1313; (AHRENS), 1892, A., 1437.
 behaviour of, in the animal system (GLEDITSCH and MOELLER), 1889, A., 708.
***m*-Xylene, 2:4:6-triamido-** (GREVINGK), 1885, A., 144.
ω-*di*bromo- (COLSON), 1881, A., 1313; (KIPPING), 1888, T., 26.
 2:4-*di*bromo-, and its derivatives (JACOBSEN), 1889, A., 39.
 4:6-bromonitro- (AHRENS), 1892, A., 1437.
 4:2:6-bromodinitro- (LIELLMANN and JUST), 1891, A., 1245.
 4-chloro- (JACOBSEN), 1885, A. 1052; (CLAUS and BURSTERT), 1890, A., 1105.
 2:4-*dichloro*- (KOCH), 1890, A., 1248.
 4:6-*dichloro*- (CLAUS and BURSTERT), 1890, A., 1106; (KOCH), 1890, A., 1248.
 orientation of (CLAUS and RUNSCHKE), 1890, A., 1246.
 amido-, bromo- and nitro-derivatives of (CLAUS and RUNSCHKE), 1890, A., 1247.
 2:4:6-*trichloro*- (CLAUS and BURSTERT), 1890, A., 1106.

***m* Xylene, 2:4:5:6-tetrachloro-** (CLAUS and BURSTERT), 1890, A., 1106; (KOCH), 1890, A., 1218.
ω-*tetra*- and *hexa*-chloro- (COLSON and GAUTIER), 1886, A., 613.
 2:4:5:6-*dichlorodibromo*- (KOCH), 1890, A., 1218.
 4:6-chloronitro- (AHRENS), 1892, A., 1437.
 4:6:2:5-*dichlorodinitro*- (KOCH), 1890, A., 1218.
 4-fluoro- (TOHL), 1892, A., 968.
 fluoronitro- (AHRENS), 1892, A., 1437.
 4-iodo-, action of sulphuric acid on (HAMMERICH), 1890, A., 1106.
 4:6-*di*iodo- (HAMMERICH), 1890, A., 1107.
 6:4-iodonitro- (AHRENS), 1892, A., 1437.
 2-nitro- and 2 4-*dinitro*- (GREVINGK), 1885, A., 144.
 nitrocycano- (AHRENS), 1892, A., 1437.
***p*-Xylene in Galician petroleum** (PAWLEWSKI), 1885, A., 1126.
 spectrum of (HARTLEY), 1885, T., 707.
 commercial, ethylbenzene in (NOLTING and PALMER), 1891, A., 1197.
 ethylin, action of phosphoric chloride on (COLSON), 1885, A., 252.
***p*-Xylene, 2-bromo-** (JACOBSEN), 1885, A., 144, 518; (JANNASCH), 1885, A., 251.
ω-*di*bromo- (KIPPING), 1888, T., 31.
 action of fuming nitric acid on (LOW), 1885, A., 1208.
 2:5-*di*bromo-, preparation and properties of (MOODY and NICHOLSON), 1890, T., 974.
 and its transformation by means of sulphuric acid (KOCH), 1890, A., 1247.
 solid, oxidation products of (SCHULTZ), 1885, A., 1053.
 2:6-*di*bromo- and *tetrabromo*- (JACOBSEN), 1885, A., 518.
 chloro- and 2:5-*dichloro*- (KLUGE), 1885, A., 1208.
ω-*tetra*-, *ω*-*penta*- and *ω*-*hexa*-chloro- (COLSON and GAUTIER), 1886, A., 613.
mono-, *di*- and *tri*-chlorobromo-, chloro-*di*- and *tri*-bromo- and *dichlorodibromo*-, and their derivatives (WILLGERODT and WOLFIEN), 1889, A., 965.
 2:5-*dichlorodinitro*- (KLUGE), 1885, A., 1208.

o-Xylene, Me:Me=1:2; *m*-xylene, Me:Me=1:3; *p*-xylene, Me:Me=1:4.

- p*-Xylene, 2-nitro-, oxidation of (NOYES), 1889, A., 391.
 2:3- and 2:6-*di*-nitro-, crystallographic examination of (BARNER), 1883, A., 179.
 2:3-, 2:5- and 2:6-*di*-nitro-, constitution of (LELLMANN), 1885, A., 973.
 2:3:6-*tri*-nitro- (NÖLTING and GEISSMANN), 1886, A., 344.
 2:5-*di*-nitroso- (PFLUG), 1890, A., 607.
Xylenes (COLSON), 1884, A., 1000.
 coal-tar, English and Scotch (LEVINSTEIN), 1884, A., 898.
 preparation of (COLSON), 1885, A., 654.
 molecular refraction and dispersion of (GLADSTONE), 1891, T., 295.
 action of aluminium chloride on (HEISE and TOHL), 1892, A., 1309.
 derivatives of the three isomeric (RADZISZEWSKI and WISPEK), 1885, A., 889.
 three, in coal-tar, analytical estimation of (REUFER), 1884, A., 1431.
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Xyleneazo-. See under Azo-.
m-Xylenecarboxylic acid, *di*-nitroso-, and nitronitroso- (CLAUS), 1890, A., 980.
Xylenecinnamene. See Xylenestyrene.
Xylenediamine. See Xylylenediamine.
p-Xylene-*o*-dicarboxylic acid. See *p*-Phenylenediacetic acid.
Xylenedicarboxylic acids. See Cumidic acids.
m-Xylene-2:4-disulphone-ethylamide (WISCHIN), 1891, A., 74.
o-Xylene-4:6(?)disulphonic acid (PFANNENSTILL), 1892, A., 1341.
m-Xylene-2:4-disulphonic acid (WISCHIN), 1891, A., 73; (PFANNENSTILL), 1892, A., 1340.
 6-bromo- and 6-chloro- (WISCHIN), 1891, A., 74.
m-Xylene-2:6(?)disulphonic acid (PFANNENSTILL), 1892, A., 1340.
p-Xylene-2:6(?)disulphonic acid and its derivatives (HOLMES), 1891, A., 1374; (PFANNENSTILL), 1892, A., 1341.
m-Xylenephthaloylic acid, ammonium salt of, crystalline form of (SORET), 1886, A., 619.
Xylenestyrene (*xylenecinnamene*). See Phenyltolylpropane.
m-Xylenesulphonamic acid and its salts (TRAUBE), 1890, A., 1137.
o-Xylene-4-sulphonamide (JACOBSEN), 1885, A., 143.
p-Xylene-2-sulphonamide, 5-(?)br mo- (JACOBSEN), 1885, A., 144.
 3:6-*di*bromo-, and its reduction (MOODY and NICHOLSON), 1890, T., 977.
o-Xylene-3-sulphonic acid, 6-chloro- (KRÜGER), 1885, A., 1053.
o-Xylene-4-sulphonic acid, 5-bromo-, and its salts (JACOBSEN), 1885, A., 143.
 5-chloro- (KRÜGER), 1885, A., 1053.
m-Xylene-2-sulphonic acid and its derivatives (MOODY), 1888, P., 77; 1891, P., 189.
m-Xylene-4-sulphonic acid and its derivatives (MOODY), 1888, P., 77; 1891, P., 189.
 nitration products of (CLAUS and SCHMIDT), 1886, A., 708.
 oxidation of (LIMPRICHT), 1885, A., 1235.
*di*amido- and 6-bromonitro- and their salts (LIMPRICHT), 1885, A., 1234.
 5-bromo- (NÖLTING and KOHN), 1886, A., 356.
 6-iodo- (BAUCH), 1891, A., 73.
 2-, 5- and 6-*mono*- and 2:6- and 5:6-*di*-nitro- (CLAUS and SCHMIDT), 1886, A., 708.
p-Xylene-2-sulphonic acid, 5(?)bromo- (JACOBSEN), 1885, A., 144.
 5-bromo- (NÖLTING and KOHN), 1886, A., 356; 1889, A., 611.
 3:6-*di*bromo-, and its salts (MOODY and NICHOLSON), 1890, T., 976.
Xylenesulphonic acids, action of bromine on aqueous solutions of (KELBE and STEIN), 1886, A., 1032.
p-Xylene-2-sulphonic chloride, 3:6-*di*bromo- (MOODY and NICHOLSON), 1890, T., 977.
Xylenol ethers, heat equivalent of (STOHMANN, RODATZ and HERZENBERG), 1887, A., 428.
 amido-, and its hydrochloride (PFAFF), 1883, A., 918.
 nitro-, and its derivatives (PFAFF), 1883, A., 802, 918.
o-3-Xylenol (TÖHL), 1886, A., 57; (NÖLTING and FOREL), 1886, A., 58.
*tri*bromo- (TÖHL), 1886, A., 57.
o-4-Xylenol, 3:5-*di*nitro- (NÖLTING and PICK), 1889, A., 129.
m-2-Xylenol (JACOBSEN), 1889, A., 41.
m-4-Xylenol (SMITH, COUTTS and BROTHERS), 1886, T., 23; (JACOBSEN), 1886, A., 345.
m-5-Xylenol (TÖHL), 1885, A., 522.
p-2-Xylenol, 5-amido- (SUTKOWSKI), 1887, A., 668.

- o*-Xylene, Me:Me=1:2; *m*-xylene, Me:Me=1:3; *p*-xylene, Me:Me=1:4.
- p*-2 **Xylenol**, ω -dibromo- (ADAM), 1884, A., 1820.
- 5-nitro-, ethyl salt of (NÖLTING, WITT and FOREL), 1886, A., 58.
- 5-nitroso-. See *p*-Xyloquinoneoxime.
- m*-4 **Xylenol-5-sulphonic acid** (LIMPRICHT), 1885, A., 1234; (SARTIG), 1886, A., 153.
- m*-4 **Xylenol-6-sulphonic acid**, 2- or 5-nitro- (LIMPRICHT), 1885, A., 1234; (SARTIG), 1886, A., 154.
- Xylenyl-amidoxime** and its derivatives, -azoxime-ethonyl-, -imidoximecarbonyl and -uramidoxime (OPPENHEIMER), 1890, A., 49.
- Xylic** (*xylic*) acids. See Dimethylbenzoic acids.
- m*-Xylidene-aniline and -phenylhydrazine (BORNEMANN), 1881, A., 1162.
- Xylidine**, commercial (STAEDEL and HOLZ), 1886, A., 145.
- zinc chloride (MARTINI), 1892, A., 1455.
- hydrobromides (STAEDEL), 1883, A., 578.
- hydrochlorides, action of methylic alcohol on (NÖLTING and FOREL), 1886, A., 58.
- naphthate (DYSON), 1883, T., 471.
- cyno- (SENF), 1887, A., 929.
- o*-3 **Xylidine** (*amidorylene*) (TOHL), 1886, A., 57; (NÖLTING and PICK), 1889, A., 131; (MENTON), 1891, A., 1203.
- salts of (TOHL), 1886, A., 57.
- 4:5-dibromo- (TOHL), 1886, A., 57.
- o*-1 **Xylidine** and its derivatives (JACOBSEN), 1881, A., 737; (MÜLLER), 1887, A., 663.
- 5-chloro- (CLAUS), 1892, A., 1202.
- m*-2 **Xylidine**, nitration of (NÖLTING and STOECKLIN), 1891, A., 692.
- m*-4 **Xylidine** (MÜLLER), 1887, A., 663.
- action of benzylic chloride on (JABLON-GONNET), 1892, A., 314, 1320.
- nitration of (NÖLTING and COLLIN), 1884, A., 1013.
- anhydro-bases of (GUDEMAN), 1883, A., 1282.
- compounds of metallic sulphides with (DENIGES), 1891, A., 1031.
- 2-nitro-, and its acetyl derivative (GREVINGK), 1885, A., 144.
- n*-5 **Xylidine** (TOHL), 1885, A., 522.
- methylation of (LIMPACH), 1883, A., 464.
- carbamate, cyanate and cyanurate (FRANTZEL), 1889, A., 241.
- p*-2 **Xylidino** (NÖLTING, WITT and FOREL), 1886, A., 57; (PELUG), 1890, A., 606.
- preparation and properties of (WITT), 1889, A., 603.
- diamido- (WITT, NÖLTING and FOREL), 1889, A., 601.
- 3:5-dibromo- (NÖLTING and KOHN), 1886, A., 356.
- 5 chloro- (KLUGE), 1885, A., 1208.
- 5-nitro- (NÖLTING, WITT and FOREL), 1886, A., 58; (WITT), 1889, A., 604.
- thio-base from (ANSCHÜTZ and SCHULTZ), 1889, A., 603.
- o*-Xylidines (JACOBSEN), 1884, A., 737; 1886, A., 235.
- nitration of (NÖLTING and STOECKLIN), 1891, A., 692.
- m*-Xylidines, action of diazo-*p*-nitrobenzene salts on (MELDOLA), 1883, T., 428.
- Xylidines**, consecutive (WROBLEWSKI), 1886, A., 145.
- six isomeric and some of their derivatives (NÖLTING and FOREL), 1885, A., 381; 1886, A., 58.
- separation of (WITT), 1886, A., 699.
- m*-4 **Xylidine-5-sulphonic acid** (NÖLTING and KOHN), 1889, A., 611.
- constitution of (PANAJOTOW), 1887, A., 382.
- m*-4 **Xylidine-5(?) -sulphonic acid** and its salts (JACOBSEN and LEDDERBOGE), 1883, A., 593; (SARTIG), 1886, A., 153.
- m*-1 **Xylidine-6-sulphonic acid** and its salts (SARTIG), 1886, A., 153; (NÖLTING and KOHN), 1888, A., 355.
- 2- or 5-nitro- (LIMPRICHT), 1885, A., 1231.
- p*-2 **Xylidine-5- and -6-sulphonic acids** (NÖLTING and KOHN), 1886, A., 355; 1889, A., 611.
- m*-Xylidoethylphthalimide. See Nyllyl-amidoethylphthalimide.
- Xylitol** (FISCHER and STAHEL), 1891, A., 668; (BERTRAND), 1892, A., 28.
- constitution of (BERTRAND), 1892, A., 29.
- pentanitrate* (BERTRAND), 1892, A., 29.
- m*-Xylobenzaldehyde (HINRICHSSEN), 1889, A., 131, 391.
- m*-Xylo-benzylamine and -benzylic alcohol (HINRICHSSEN), 1889, A., 131.
- Xylonic acid** (ALLEN and TOLLENS), 1891, A., 668.
- o*-Xylo-3:6-quinol (*dimethylquinol*) (NÖLTING and FOREL), 1886, A., 58.

- o*-Xylene, Me:Me=1:2; *m*-xylene, Me:Me=1:3; *p*-xylene, Me:Me=1:4.
- o*-Xylo-3:6-quinol (*dimethylquinol*) 4:5-dichloro- (CLAUS, RAPF, HERFELD and BERKEFELD), 1891, A., 1201.
- m*-Xylo-2:5-quinol (NÖLTING and FORER), 1886, A., 58.
4:6-dichloro- (CLAUS and RUNSCHKE), 1890, A., 1247.
- p*-Xylo-2:5-quinol (NIETZKI), 1883, A., 467.
oxidation of (HEYMANN and KOENIGS), 1887, A., 1035.
- Xyloquinoline. See Dimethylquinoline.
- o*-Xylo-3:6-quinone (1:2-dimethyl-3:6-quinone) (NÖLTING and FORER), 1885, A., 382; 1886, A., 58.
4:5-dichloro- (CLAUS, RAPF, HERFELD and BERKEFELD), 1891, A., 1201.
- m*-Xylo-2:5-quinone (NÖLTING and FORER), 1885, A., 382; 1886, A., 58.
4:6-dichloro- (CLAUS and RUNSCHKE), 1890, A., 1247.
- p*-Xylo-2:5-quinone (*phlorone*) and its derivatives (NIETZKI), 1883, A., 467; (NÖLTING and FORER), 1885, A., 382; (GOLDSCHMIDT and SCHMID), 1885, A., 775.
- p*-Xylo-2:5-quinonedioxime (SUTKOWSKI), 1887, A., 668; (PFLUG), 1890, A., 607.
- p*-Xylo-2:5-quinoneoxime (5-*nitroso-p*-2-*xylenol*) and its derivatives (GOLDSCHMIDT and SCHMID), 1885, A., 775; (SUTKOWSKI), 1887, A., 667; (PFLUG), 1890, A., 607.
- m*-Xyl-4:6-*oreinol* (*dihydroxyxylene*) (PFAFF), 1883, A., 918; (V. KOSTANECKI), 1887, A., 39.
- m*-Xyl-4:6-*oreinol*-5-carboxylic acid (V. KOSTANECKI), 1887, A., 39.
- Xylose. See Carbohydrates.
- Xylosecarboxylic acid (FISCHER), 1890, A., 1399.
- o*-Xylyl *isobutylbenzyl* ketone (WEGE), 1892, A., 338.
- m*-Xylyl ethyl ketone (CLAUS), 1891, A., 564.
- p*-Xylyl ethyl ketone (CLAUS and FICKERT), 1887, A., 253.
- o*-Xylyl methyl ketone (CLAUS and CLAUSSEN), 1886, A., 463; (CLAUS), 1890, A., 770.
5-chloro-, and derivatives (CLAUS), 1891, A., 912; 1892, A., 1201.
- m*-Xylyl methyl ketone (CLAUS and GÄRTNER), 1886, A., 463.
6-amido- (CLAUS), 1890, A., 980.
- m*-Xylyl methyl ketone, 2- and 6-nitro- and 2:6-dinitro- (CLAUS), 1890, A., 980.
- p*-Xylyl methyl ketone and its derivatives (CLAUS and WOLLNER), 1885, A., 1136; (ERRER), 1891, A., 1053.
5-bromo- (SCHOFFE), 1892, A., 338.
- m*-Xylyl nitrosomethyl ketone, 2:6-dinitro- (CLAUS), 1890, A., 981.
- m*-Xylyl pentadecyl ketone (KRAFFT), 1888, A., 1087.
- o*-Xylylacetamide (STRASSMANN), 1888, A., 474.
- Xylylactic acid (*dimethylphenylacetic acid*), 4-nitro-, and its salts (WISPEK), 1883, A., 1096.
- m*-Xylylactic acid (POPPI), 1890, A., 499.
- o*-Xylylamide (HARRIS), 1890, A., 158.
- m*-Xylylamide (HARRIS), 1890, A., 158; (GÄTTERMANN and ROSOLYMO), 1890, A., 975.
- a-m*-Xylylamidoacetic acid and its ether (EHRLICH), 1883, A., 591.
- Xylylamidoacetoxylidide (EHRLICH), 1883, A., 594.
- m*-Xylylamidoethylphthalimide (NEWMAN), 1891, A., 1208.
- m*-Xylylamidomethane (HINRICHSSEN), 1889, A., 131, 391.
- Xylylamine. See Methylbenzylamine and Xylidine.
- Xylyl- and *isoxyl*-anilide (LEUCKART), 1890, A., 759.
- Xylylantipyriae (KLAUBER), 1891, A., 1363.
- m*-Xylylbenzamidomethane (HINRICHSSEN), 1889, A., 391.
- Xylylbutane. See *isobutyl*xylene.
- o*-Xylylcarbamide (STRASSMANN), 1888, A., 474.
- m*-Xylylcarbamide (BRÖMME), 1888, A., 1296; (PRENTZEL), 1889, A., 241.
- m*-Xylylcarbinol (HINRICHSSEN), 1889, A., 131.
- p*-Xylyl-*p*-cymylphenylmethane (ELBS), 1887, A., 942.
- Xylyldiethylphosphine (CZIMATIS), 1883, A., 58.
- 1-*m*-Xylyl-2:3-dimethylpyrazolone (KLAUBER), 1891, A., 1363.
- Xylyldiphenylamides (LELLMANN and BONHÖFFER), 1887, A., 935.
- o*-Xylylene diethyl ether (LENER), 1884, A., 1313.
- p*-Xylylenebis-methylhydroxy-*m*-diazine (GLOCK), 1888, A., 1291.
- o*-Xylylene-3:6-diamine (*diamidoxylylene*), 4:5-dichloro- (CLAUS, RAPF, HERFELD and BERKEFELD), 1891, A., 1201.

o-Xylene, Me:Me-1:2; *m*-xylene, Me:Me-1:3; *p*-xylene, Me:Me-1:4.

- o*-Xylylene- ω -diamino and its salts (STRASSMANN), 1888, A., 175.
m-Xylylene-2:1- and -4:6-diamine (GREYING), 1885, A., 115.
m-Xylylene-4:6-diamine, reactions of (WITT), 1888, A., 1186.
m-Xylylene-5:6-diamine (JACOBSEN), 1889, A., 39.
m-Xylylene- ω -diamine (BROMME), 1888, A., 1296.
p-Xylylene-2:5-diamine (NÖLTING, WITT and FOREL), 1886, A., 58; (SUKKOWSKI), 1887, A., 668.
Xylylenediaminesulphonic acid (LIMPRICHT), 1885, A., 1234.
o-Xylylenedianilide (LEISER), 1884, A., 1313.
Xylylenedimalonic acids, *m*- and *p*- (KIPPING), 1888, T., 31, 38.
m-Xylylenediphtalimide (BROMME), 1888, A., 1296.
Xylylenemethyldiamine (PEITZ), 1890, A., 607.
o-Xylylenephthalimide and chloro- (STRASSMANN), 1888, A., 475.
Xylylene bromide. See Xylene, ω -*di*-bromo-.
o-Xylylenic dibromide (PERKIN), 1888, T., 5.
Xylylenic cyanides, *m*- and *p*- (KIPPING), 1888, T., 11, 11.
diazosulphide (JACOBSON and NEY), 1889, A., 772.
oxide, tetrachloro- (GRABBE), 1887, A., 832.
sulphides (HJELM), 1890, A., 131.
o-Xylylenic sulphide (LEISER), 1884, A., 1313.
m-Xylylethylenediamine (NEWMAN), 1891, A., 1208.
 α -*m*-Xylylethylamidooctic acid (EHLICH), 1883, A., 591.
o-Xylylethyl- β -chlorodimalonic acid, synthesis of (v. BAeyer and PERKIN), 1884, A., 908.
m-Xylylfurfuryl-carbamide and -thio-carbamide (DIEBZMANN), 1892, A., 13.
m-Xylylglycollic acid (POPPE), 1890, A., 499.
 ν -*m*-Xylyl-glyoxaline, -glyoxalyl- μ -mercaptan and -glyoxalyl- μ -methylic sulphide (MARCKWALD), 1892, A., 1329.
o-Xylylglyoxylic acid (v. BUCHKA and IRISH), 1887, A., 826.
m-Xylylglyoxylic acid (CLAUS and GARTNER), 1886, A., 463; (CLAUS), 1891, A., 564.
6-nitro-, 2:6-*di*-nitro- and *di*-nitroso- (CLAUS), 1890, A., 979.
p-Xylylglyoxylic acid and its salts (CLAUS and WOLLNER), 1885, A., 1136.
m-Xylylhydrazine (KLAUBER), 1890, A., 1110; 1891, A., 1362.
Xylylhydrazinesulphonic acid, sodium salt of (KLAUBER), 1890, A., 1410.
m-Xylylhydroxyacetic acid (CLAUS), 1890, A., 979; 1891, A., 564.
p-Xylylhydroxyacetic acid (CLAUS and WOLLNER), 1885, A., 1137; (CLAUS), 1891, A., 564.
o-Xylylic cyanide (v. BAeyer and PAPE), 1884, A., 898.
m-Xylylic ethylxanthate (LEUCKART), 1890, A., 603.
p-Xylylic phosphorus chlorides (WELLER), 1887, A., 824; 1888, A., 835.
Xylylidenediamine (OPPENHEIMER), 1886, A., 517.
Xylylimidazole. See Xylylglyoxaline.
"*p*-Xylyl- β -ketonic acid" (CLAUS and FICKERT), 1887, A., 253.
"*p*-Xylyl- γ -ketonic acid" (CLAUS and MURFELD), 1887, A., 827.
m-Xylyl-malonanilide and -malonic acid (POPPE), 1890, A., 498.
o-Xylylmethylcarbinol (CLAUS), 1890, A., 770.
m-Xylylmethylcarbinol (CLAUS), 1890, A., 979.
Xylylmethylnitrosamine (PELUG), 1890, A., 607.
1 *m*-Xylyl-3-methylpyrazolone (KLAUBER), 1891, A., 1363.
o-Xylylmethylsulphine iodide (HJELM), 1890, A., 135.
Xylylmethylthiohydantoin (MARCKWALD, NEUMARK and SEELZNER), 1892, A., 150.
m-Xyloxamic acid (*oxalylylidic acid*) and its inner anhydride (MAUHNER and SUIDA), 1889, A., 110.
Xylylphosphinic acids, α -*m*- and β -*m*- (WELLER), 1887, A., 825.
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